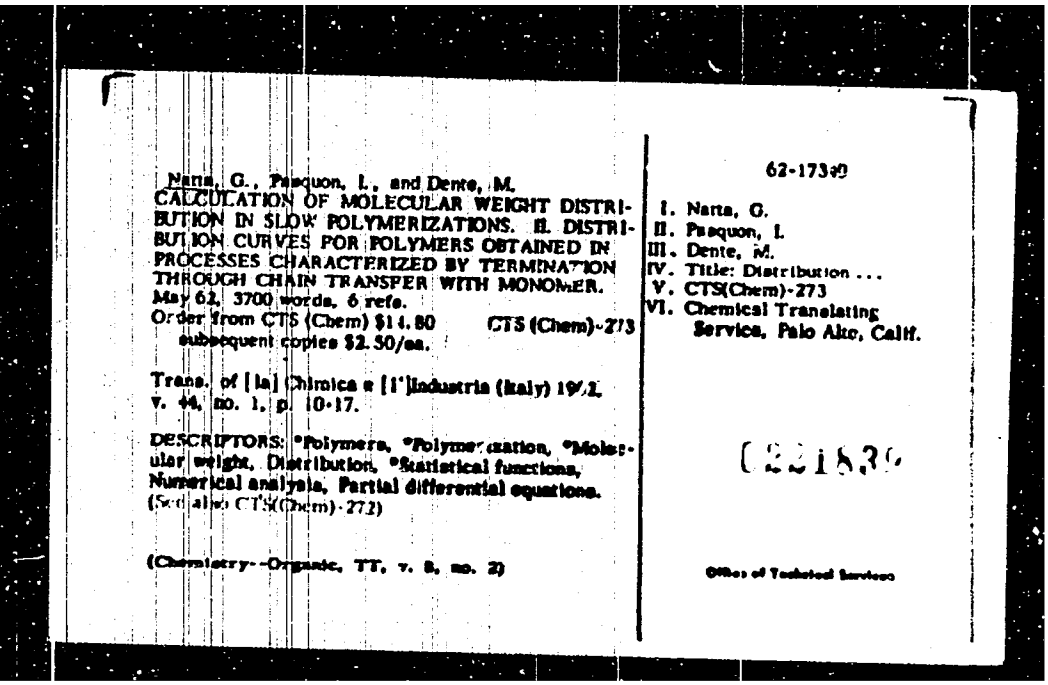
APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. II. DISTRIBUTION CURVES FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER.
May 62. 3700 words, 6 refs.
Order from CTS (Chem) $14.80 CTS (Chem)-273
subsequent copies $2.50/ea.

Trans. of [La] Chimica e [l'] Industria (Italy) 1962, v. 44, no. 1, p. 10-17.

DESCRIPTORS: *Polymers, *Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)

(Chemistry--Organic, TT, v. 8, no. 2)

62-17349

I. Natta, G.
II. Pasquon, I.
III. Dente, M.
IV. Title: Distribution ...
V. CTS(Chem)-273
VI. Chemical Translating Service, Palo Alto, Calif.

C 221830

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Stereospecific Polymerization of Vinyl Aromatic Monomers. IV. Reactivity of the Monomers in the Overall Process, by G. Natta F. Danusso, et al, 20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI, No 10, 1959, pp 968-974.

SLA 60-14211

Sci
OTS, Vol III, No 8
Apr 61

145, 119

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Stereospecific Polymerizations of Conjugated Diolefins. V. The Preparation and Properties of Isotactic 1,2-Polybutadiene, by G. Natta, L. Porri.

ITALIAN, per, Chimica Industria, Vol XLI, No 12, 1959, pp 1163-1169.

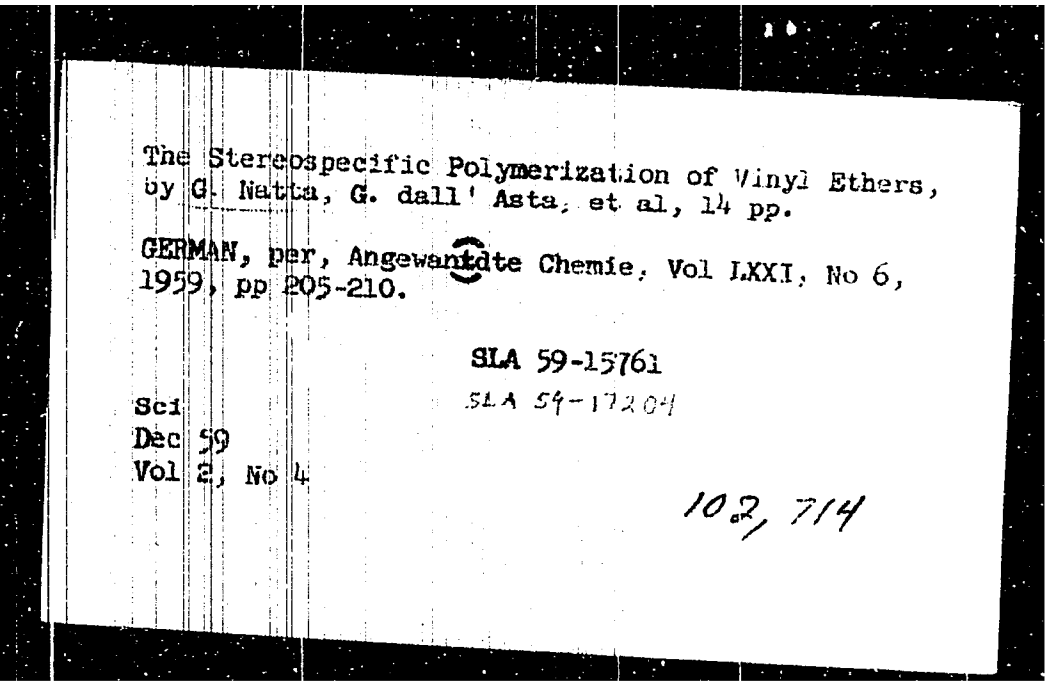
CTS(Chem)-103

Sci
26 Mar 62
Vol IV, No 8

198, 218

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



The Stereospecific Polymerization of Vinyl Ethers, by G. Natta, G. dall' Asta, et al, 14 pp.

GERMAN, per, Angewandte Chemie, Vol LXXI, No 6, 1959, pp 205-210.

SLA 59-15761

SLA 59-17204

Sci
Dec 59
Vol 2, No 4

102, 714

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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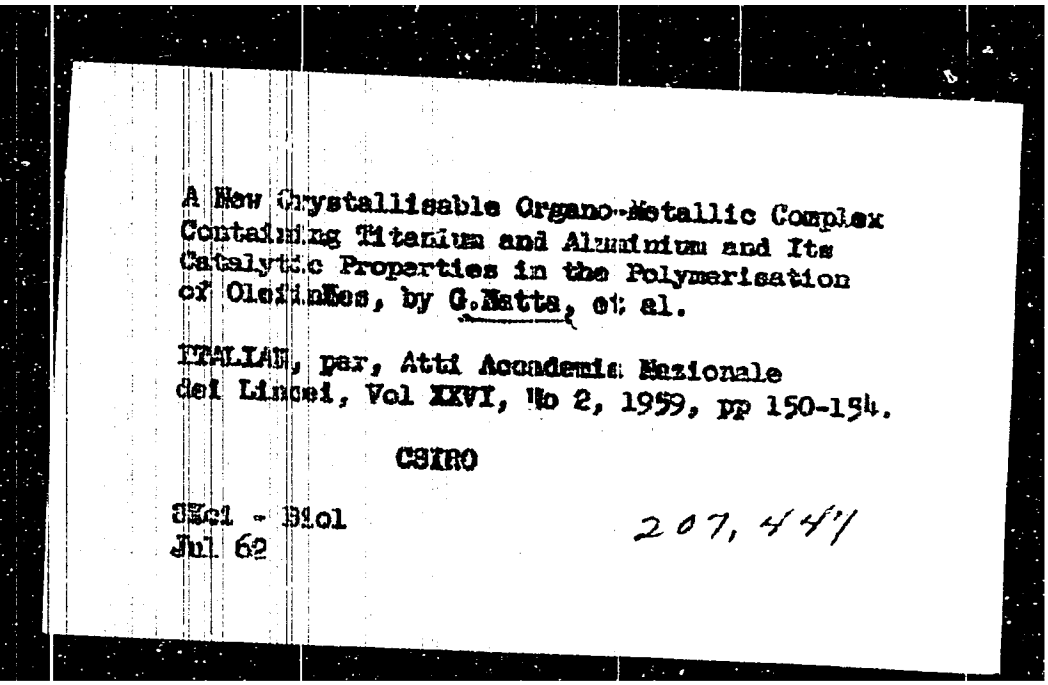

A New Crystallisable Organo-Metallic Complex Containing Titanium and Aluminium and Its Catalytic Properties in the Polymerisation of Olefines, by G.Natta, et al.

ITALIAN, per, Atti Accademia Nazionale dei Lincei, Vol XXVI, No 2, 1959, pp 150-154.

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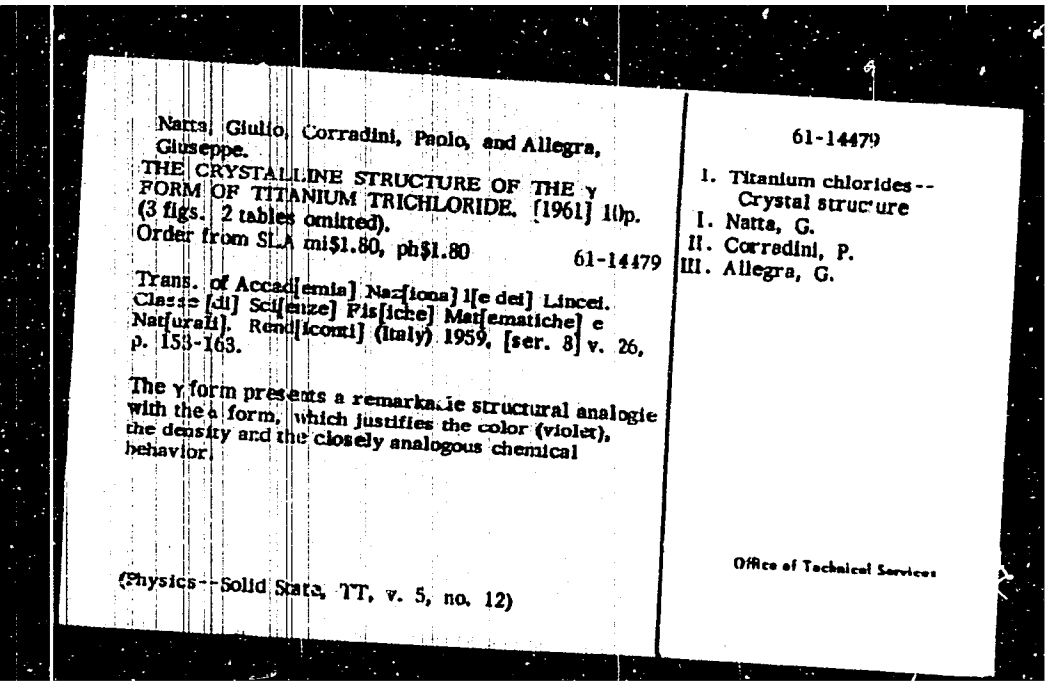
Jul 62

207,447

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Natta, Giulio, Corradini, Paolo, and Allegra, Giuseppe.
THE CRYSTALLINE STRUCTURE OF THE γ FORM OF TITANIUM TRICHLORIDE. [1961] 10p. (3 figs. 2 tables omitted).
Order from SLA mi$1.80, ph$1.80 61-14479

Trans. of Accad[emia] Naz[iona]l[e dei] Lincei. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1959, [ser. 8] v. 26, p. 153-163.

The γ form presents a remarkable structural analogie with the α form, which justifies the color (violet), the density and the closely analogous chemical behavior.

(Physics--Solid State, TT, v. 5, no. 12)

61-14479

1. Titanium chlorides--Crystal structure
I. Natta, G.
II. Corradini, P.
III. Allegra, G.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Isotactic Polymers, by G. Natta, 33 pp.

ITALIAN, per., La Chimica e l'Industrie, Vol. XXXVII, 1955, pp 888-900.

SLA 61-17645

Sci
24 Jul 62
Vol. VII, No 10

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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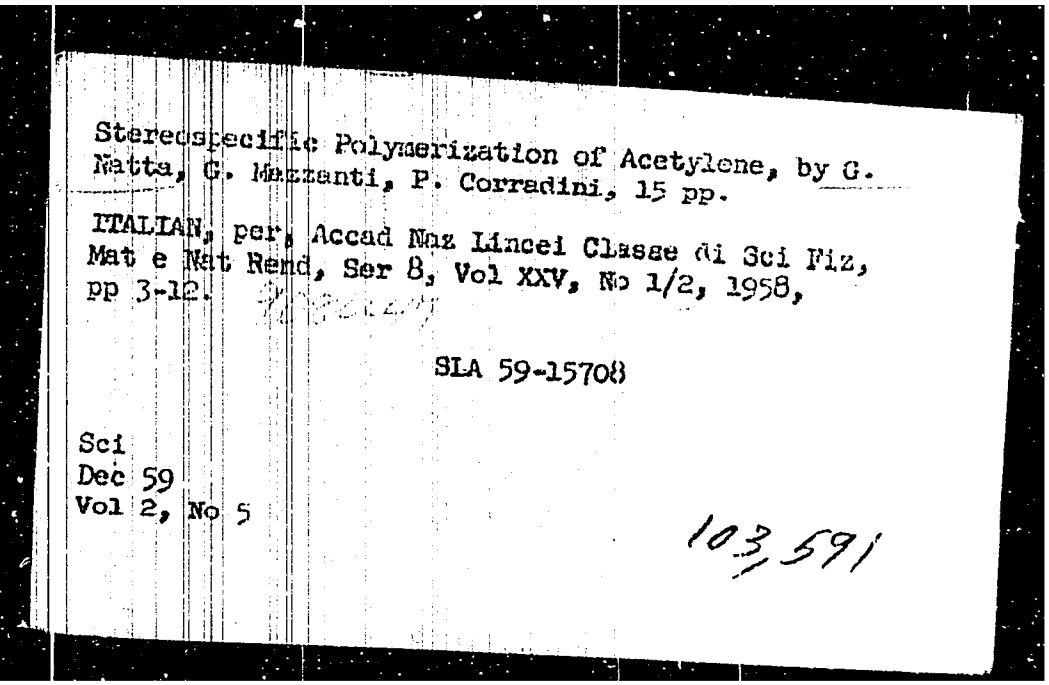

Stereospecific Polymerization of Acetylene, by G. Natta, G. Mazzanti, P. Corradini, 15 pp.

ITALIAN, per, Accad Naz Lincei Classe di Sci Fiz, Mat e Nat Rend, Ser 8, Vol XXV, No 1/2, 1958, pp 3-12.

SLA 59-15708

Sci
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Vol 2, No 5

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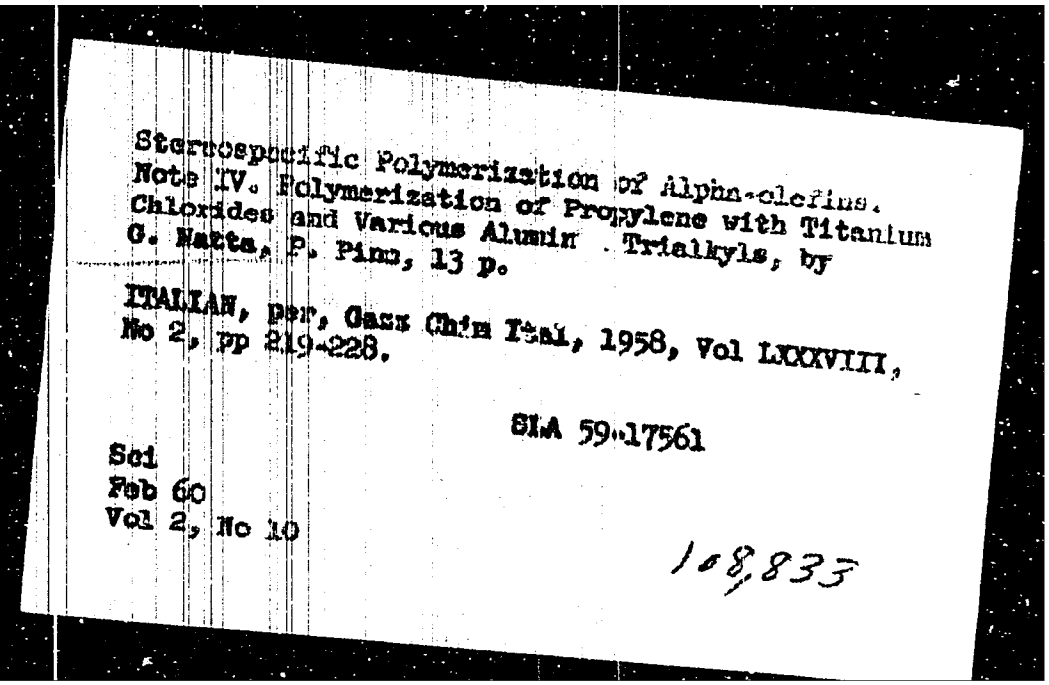
APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Stereospecific Polymerization of Alpha-olefins.
Note IV. Polymerization of Propylene with Titanium
Chlorides and Various Aluminum Trialkyls, by
G. Natta, P. Pino, 13 p.

ITALIAN, per, Gazz Chim Ital, 1958, Vol LXXXVIII,
No 2, pp 219-228.

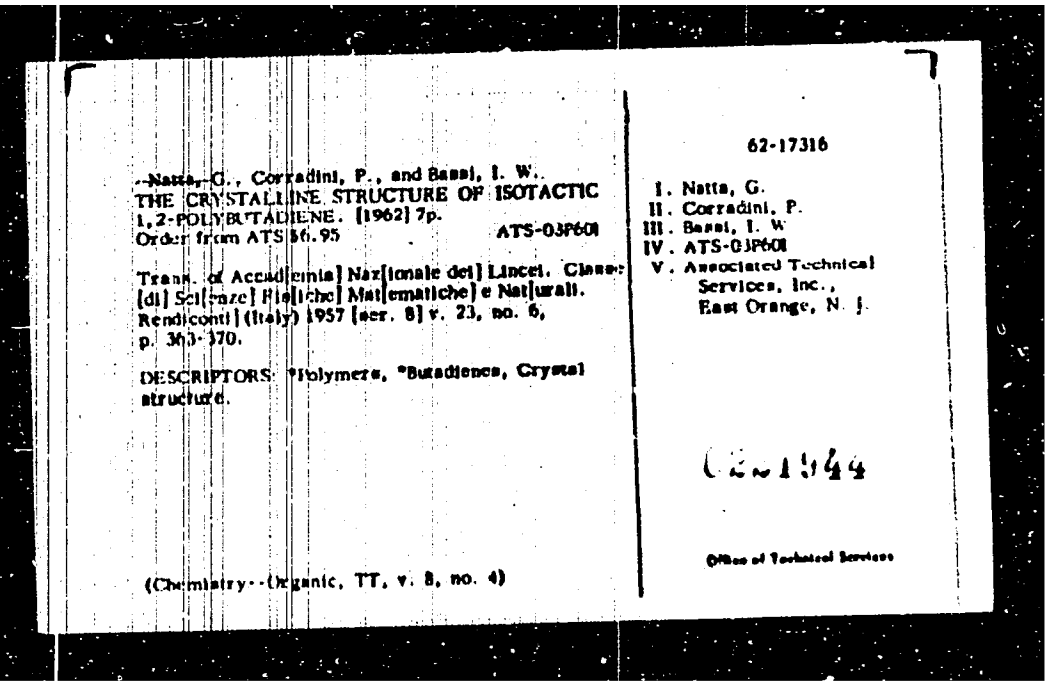
SIA 59-17561

Sci
Feb 60
Vol 2, No 10

108,833

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Natta, G., Corradini, P., and Bassi, I. W.
THE CRYSTALLINE STRUCTURE OF ISOTACTIC 1,2-POLYBUTADIENE. [1962] 7p.
Order from ATS $6.95 ATS-63P601

Trans. of Accad[emia] Naz[ionale dei] Lincei. Classe [di] Sci[enze] Fis[iche] Mat[ematiche] e Nat[urali]. Rendiconti [Italy] 1957 [ser. 8] v. 23, no. 6, p. 363-370.

DESCRIPTORS: *Polymers, *Butadienes, Crystal structure.

(Chemistry--Organic, TT, v. 8, no. 4)

62-17316

I. Natta, G.
II. Corradini, P.
III. Bassi, I. W
IV. ATS-63P601
V. Associated Technical Services, Inc., East Orange, N. J.

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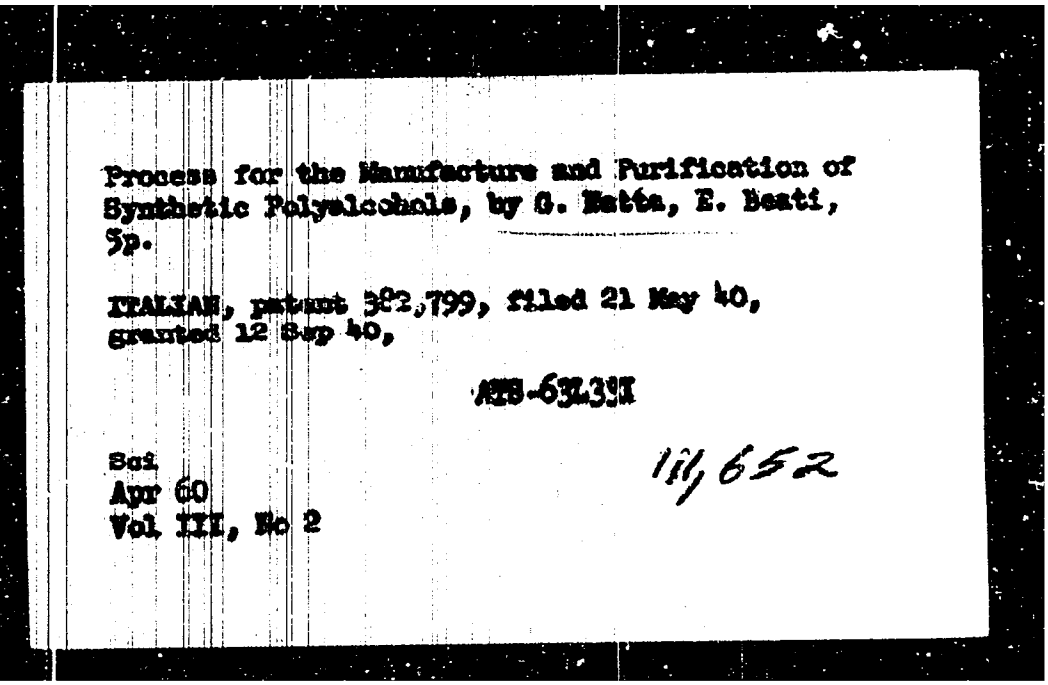

Process for the Manufacture and Purification of Synthetic Polyalcohols, by G. Natta, E. Beati, Sp.

ITALIAN, patent 382,799, filed 21 May 40, granted 12 Sep 40,

MIS-63439

111,652

Sci
Apr 60
Vol III, No 2

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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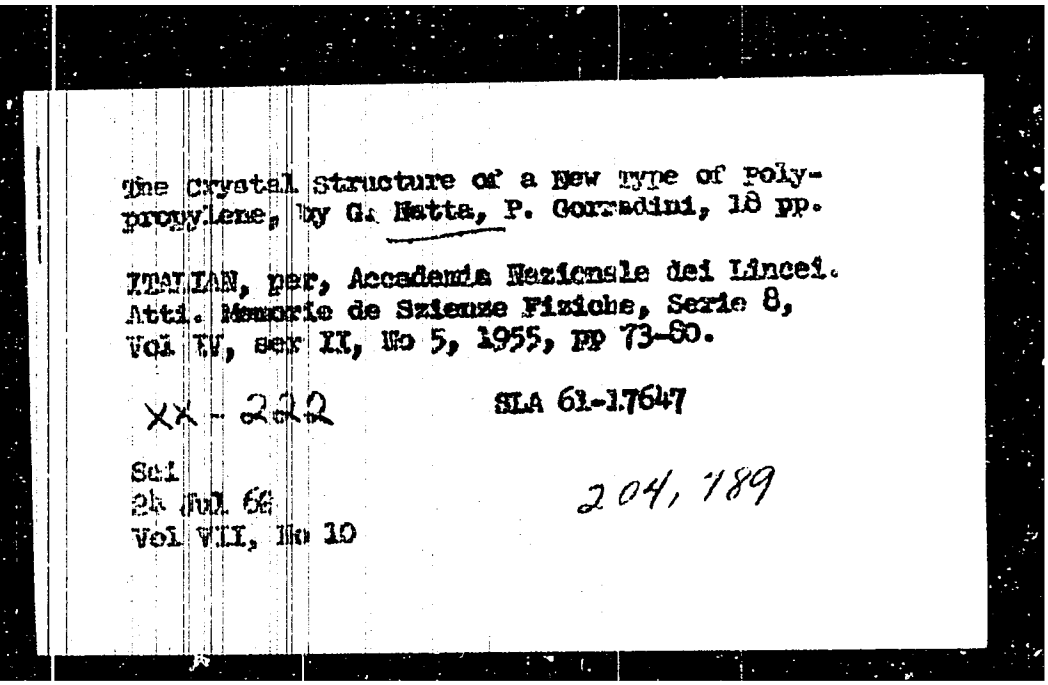

The Crystal Structure of a New Type of Polypropylene, by G. Natta, P. Corradini, 18 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Memorie de Szienze Fiziche, Serie 8, Vol IV, ser II, No 5, 1955, pp 73-80.

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SLA 61-17647

Sci
24 Jul 62
Vol VII, No 10

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Structure of Alkali Cyanides and their Isomorphism with Halides, by G. Natta, L. Passerini.
ITALIAN, per, Gazz. Chim. Ital, Vol. 61, 1931, pp 191-215
CSIRO/ No. 7779

G NATTA

Sci -
Aug 67

337-136

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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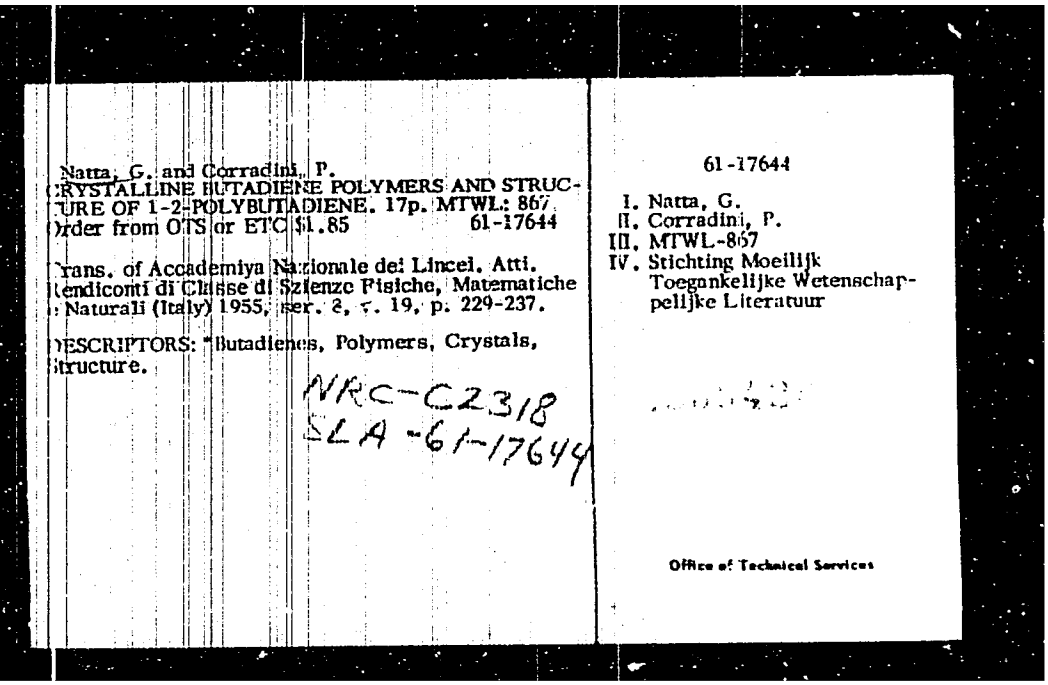

Natta, G. and Corradini, P.
CRYSTALLINE BUTADIENE POLYMERS AND STRUCTURE OF 1-2-POLYBUTADIENE. 17p. MTWL: 867.
Order from OTS or ETC $1.85 61-17644

Trans. of Accademiya Nazionale dei Lincei. Atti. Rendiconti di Classe di Szienze Fisiche, Matematiche e Naturali (Italy) 1955, ser. 2, v. 19, p. 229-237.

DESCRIPTORS: *Butadienes, Polymers, Crystals, Structure.

NRC-C2318
SLA-61-17644

61-17644

I. Natta, G.
II. Corradini, P.
III. MTWL-867
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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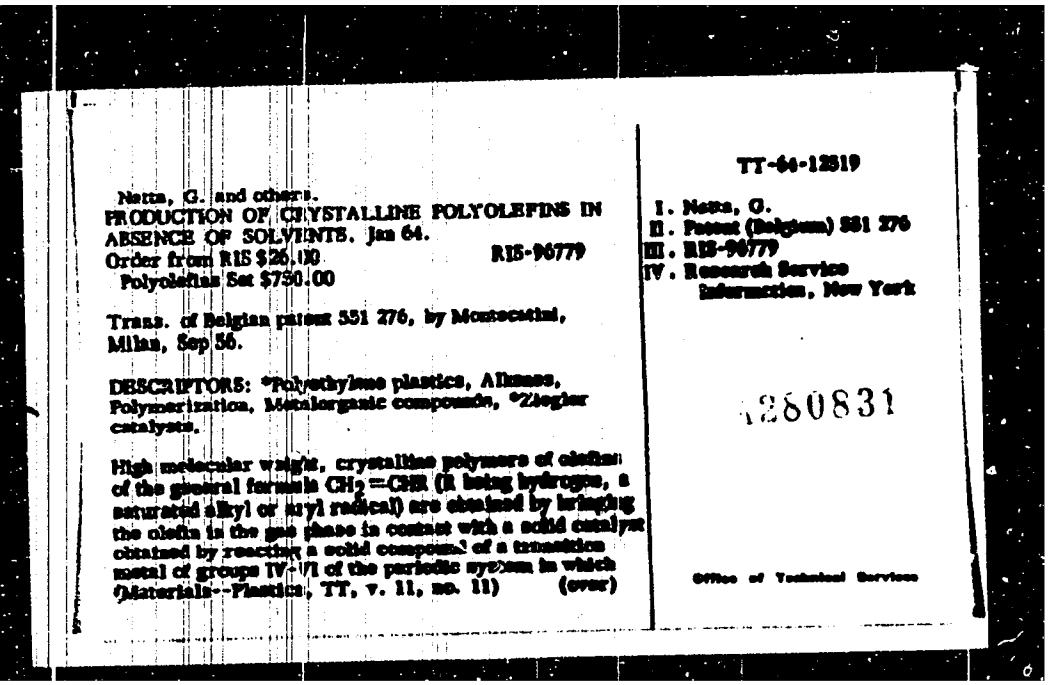
APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Natta, G. and others.
PRODUCTION OF CRYSTALLINE POLYOLEFINS IN ABSENCE OF SOLVENTS. Jan 64.
Order from RIS $26.00 RIS-96779
Polyolefins Set $750.00

Trans. of Belgian patent 551 276, by Montecatini, Milan, Sep 56.

DESCRIPTORS: *Polyethylene plastics, Alkanes, Polymerization, Metalorganic compounds, *Ziegler catalysts.

High molecular weight, crystalline polymers of olefins of the general formula CH_2=CHR (R being hydrogen, a saturated alkyl or aryl radical) are obtained by bringing the olefin in the gas phase in contact with a solid catalyst obtained by reacting a solid compound of a transition metal of groups IV-VI of the periodic system in which

(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12519

I. Natta, G.
II. Patent (Belgium) 551 276
III. RIS-96779
IV. Research Service Information, New York

1280831

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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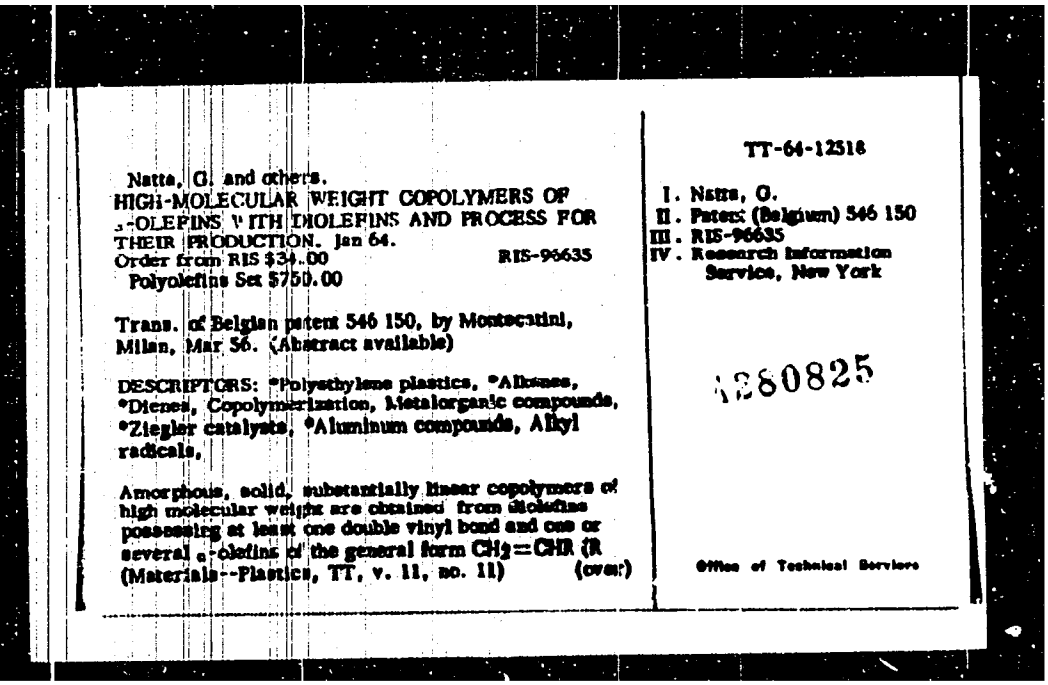

Natta, G. and others.
HIGH-MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS WITH DIOLEFINS AND PROCESS FOR THEIR PRODUCTION. Jan 64.
Order from RIS $34.00 RIS-96635
Polyolefins Set $750.00

Trans. of Belgian patent 546 150, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Alkenes, *Dienes, Copolymerization, Metalorganic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals.

Amorphous, solid, substantially linear copolymers of high molecular weight are obtained from diolefins possessing at least one double vinyl bond and one or several α-olefins of the general form $CH_2=CHR$ (R (Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12518

I. Natta, G.
II. Patent (Belgium) 546 150
III. RIS-96635
IV. Research Information Service, New York

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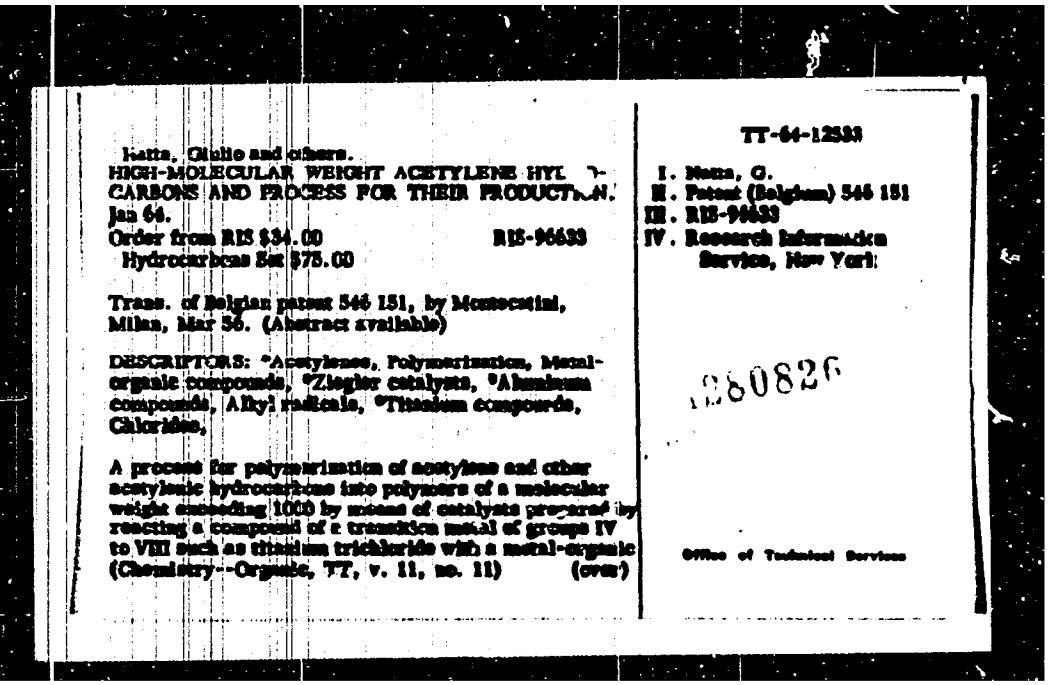
Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Natta, Giulio and others.
HIGH-MOLECULAR WEIGHT ACETYLENE HYL ›-
CARBONS AND PROCESS FOR THEIR PRODUCTION.
Jan 64.
Order from RIS $34.00 RIS-96633
Hydrocarbons Set $75.00

Trans. of Belgian patent 546 151, by Montecatini, Milan, Mar 56. (Abstract available)

DESCRIPTORS: *Acetylenes, Polymerization, Metal-organic compounds, *Ziegler catalysts, *Aluminum compounds, Alkyl radicals, *Titanium compounds, Chlorides.

A process for polymerization of acetylene and other acetylenic hydrocarbons into polymers of a molecular weight exceeding 1000 by means of catalysts prepared by reacting a compound of a transition metal of groups IV to VIII such as titanium trichloride with a metal-organic
(Chemistry--Organic, TT, v. 11, no. 11) (over)

TT-64-12533

I. Natta, G.
II. Patent (Belgium) 546 151
III. RIS-96633
IV. Research Information Service, New York

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, Giulio, Carradini, Paolo, and Bassi, Ivano Walter.

THE CRYSTAL STRUCTURE OF SOME POLY-ALPHA-OLEFINS WHICH ARE ISOTACTIC. [1960] 11p. 12 refs. Order from SLA $1.60 60-18496

Trans. of Accad[emia] Naz[ionale dei] Lincei. Atti. Classe[e di] Sci[enze] Fis[iche] Mat[ematiche] e Nat-[urali]. Rend[iconti] (Italy) 1955 [ser. 8] v. 19, p. 404-411.

Another trans. is available from CTS or ETC $1.85 as 61-17348, MTWL-855/1, 14p.

DESCRIPTORS: *Crystal structure, *Polymers, X-ray diffraction analysis, *Ethylenes.

CSIRO

(Physics--Solid State, TT, v. 10, no. 1)

60-18196

I. Natta, G.
II. Carradini, P.
III. Bassi, I.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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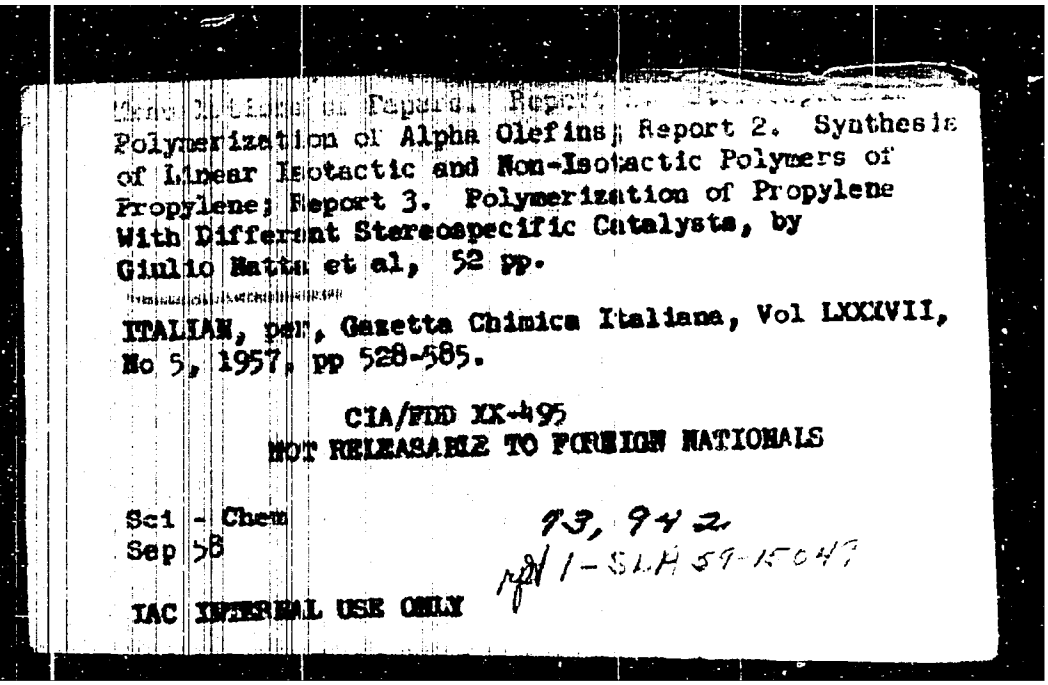

Polymerization of Alpha Olefins; Report 2. Synthesis of Linear Isotactic and Non-Isotactic Polymers of Propylene; Report 3. Polymerization of Propylene With Different Stereospecific Catalysts, by Giulio Natta et al, 52 pp.

ITALIAN, per, Gazetta Chimica Italiana, Vol LXXXVII, No 5, 1957, pp 528-585.

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NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Sep 58

93, 942
JPRS/I-SLH 59-15047

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Stereospecific Polymerization of Conjugated Dialefins with Catalysts Containing Different Lattice Structural Forms of $TiCl_3$, by Guillo Natta Lido Porri, Leonardo Fiore, 15 p.

ITALIAN, per, Gazz Chim Ital, 1959, Vol LXXXIX, No 3, pp 761-774.

SLA 59-20016

SLA 60-1[illegible]

Sci
Feb 60 Vol 2, No 10

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Isotactic Polymers of Methyl-Substituted Styrenes,
by Dario Sianesi, Giulio Natta, Ferdinando Danusso, 10 p.

ITALIAN, per, Gazzetta Chimica Italiana, 1959,
Vol LXXXIX, No 3, pp 775-783.

SLA 60-10820

Sci
Apr 60
Vol III, No 2

111,662

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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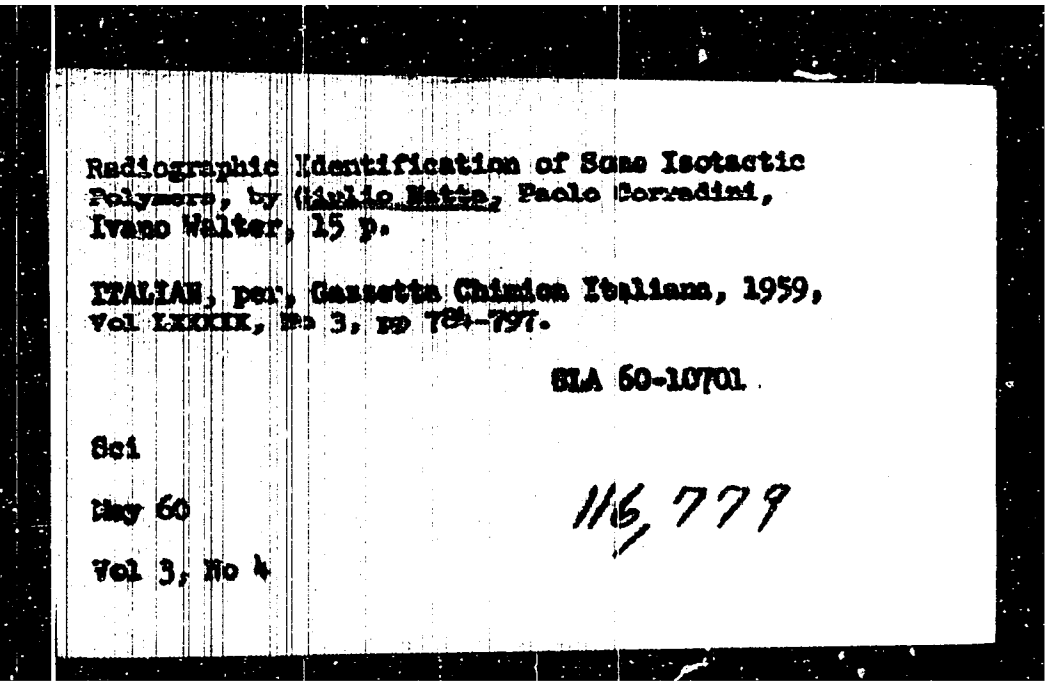

Radiographic Identification of Some Isotactic Polymers, by Giulio Natta, Paolo Corradini, Ivano Walter, 15 p.

ITALIAN, per: Gazzetta Chimica Italiana, 1959, Vol LXXXIX, No 3, pp 784-797.

SLA 60-10701

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May 60

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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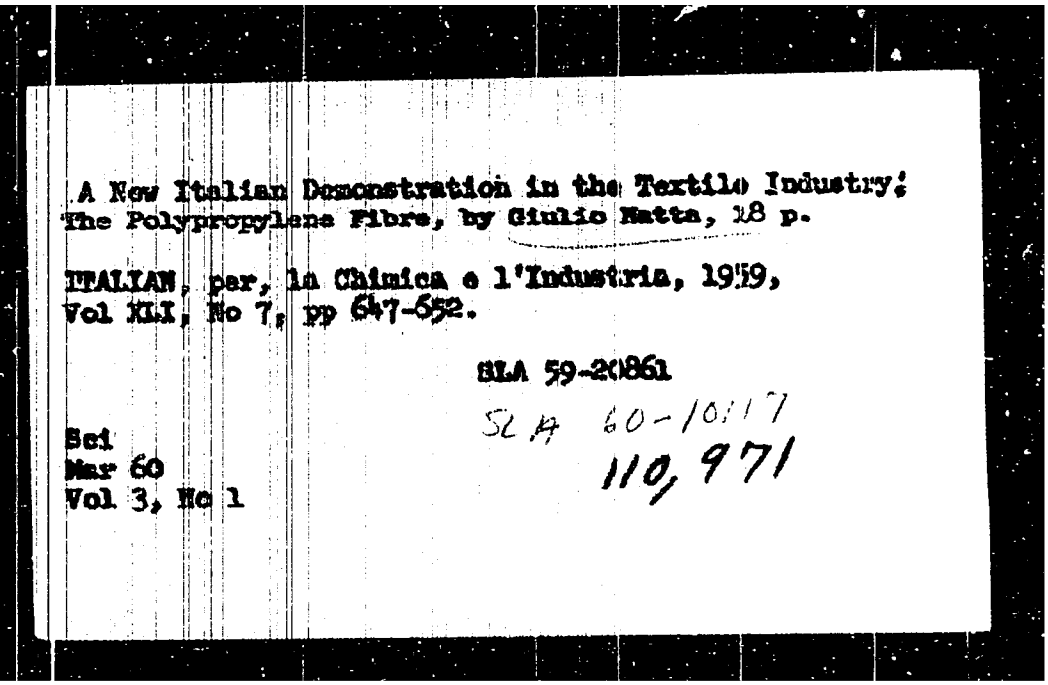

A New Italian Demonstration in the Textile Industry: The Polypropylene Fibre, by Giulio Natta, 18 p.

ITALIAN, per, la Chimica e l'Industria, 1959, Vol XLI, No 7, pp 647-652.

SLA 59-20861

SLA 60-1017

110,971

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Mar 60
Vol 3, No 1

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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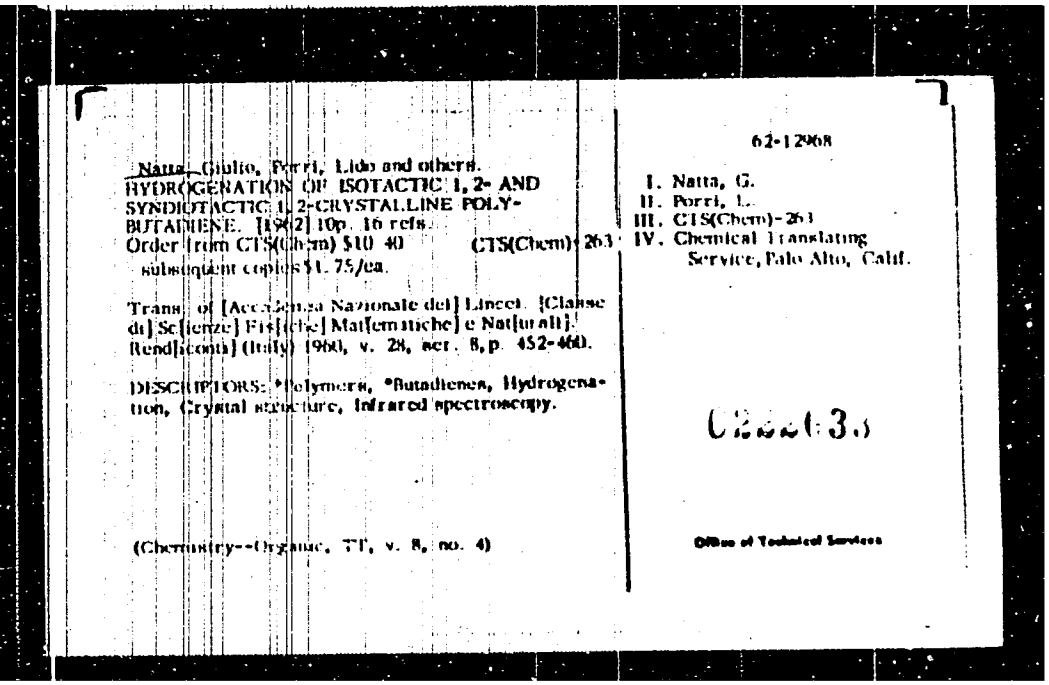

Natta, Giulio, Porri, Lido and others.
HYDROGENATION OF ISOTACTIC 1, 2- AND SYNDIOTACTIC 1, 2-CRYSTALLINE POLY-BUTADIENE. [1962] 10p. 16 refs.
Order from CTS(Chem) $10.40 (CTS(Chem)-263
subsequent copies $1.75/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 452-460.

DESCRIPTORS: *Polymers, *Butadienes, Hydrogenation, Crystal structure, Infrared spectroscopy.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12968

I. Natta, G.
II. Porri, L.
III. CTS(Chem)-263
IV. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G[iulio] Farina. M[ario] and others.
ASYMMETRIC SYNTHESIS OF POLYTACTIC POLYMERS. [1961] 3p.
Order from ATS $6.50 ATS-85N491

Trans. of [la] Chim[ica] e [l'Ind[ustria] (Italy) 1960, v. 42, no. 12, p. 1363-1364.

ATS-677-CJ

(Chemistry--Organic, TT, v. 5, no. 11)

61-22168

1. Polymers--Synthesis
2. Title: Polytactic polymers
I. Natta, G.
II. Farina, M.
III. ATS-85N491
IV. Associated Technical Services, Inc., East Orange, N J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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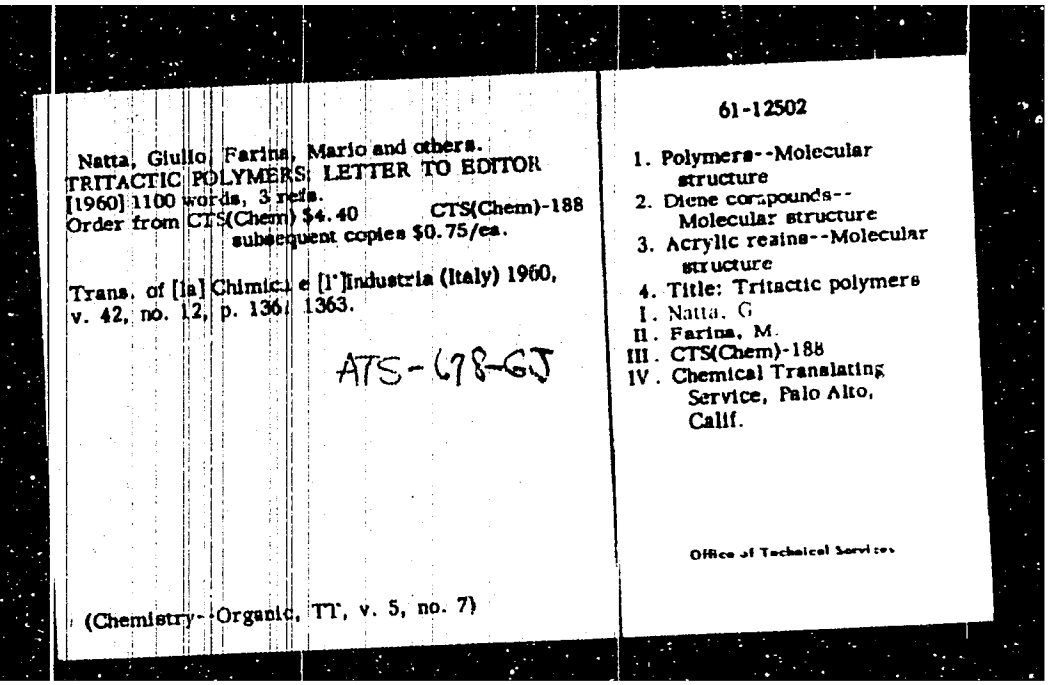

Natta, Giulio, Farina, Mario and others.
TRITACTIC POLYMERS; LETTER TO EDITOR
[1960] 1100 words, 3 refs.
Order from CTS(Chem) $4.40 CTS(Chem)-188
subsequent copies $0.75/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1960, v. 42, no. 12, p. 1361-1363.

ATS-678-GJ

(Chemistry--Organic, TT, v. 5, no. 7)

61-12502

1. Polymers--Molecular structure
2. Diene compounds--Molecular structure
3. Acrylic resins--Molecular structure
4. Title: Tritactic polymers
I. Natta, G
II. Farina, M.
III. CTS(Chem)-188
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, Giulio.
CATALYTIC ASPECTS OF STEREOSPECIFIC POLYMERIZATIONS. [1960] 13,000 words, 79 refs.
Order from CTS(Chem) $48.00 CTS(Chem)-179
subsequent copies $8.00/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1960.
v. 42, no. 11, p. 1207-1225.

(Chemistry--Organic, TT, v. 5, no. 5)

61-12498

1. Ethylenes--Polymerization
2. Metalorganic compounds--Catalytic properties
3. Polymerization--Analysis
4. Title: Stereospecific polymerization

I. Natta, G.
II. CTS(Chem)-179
III. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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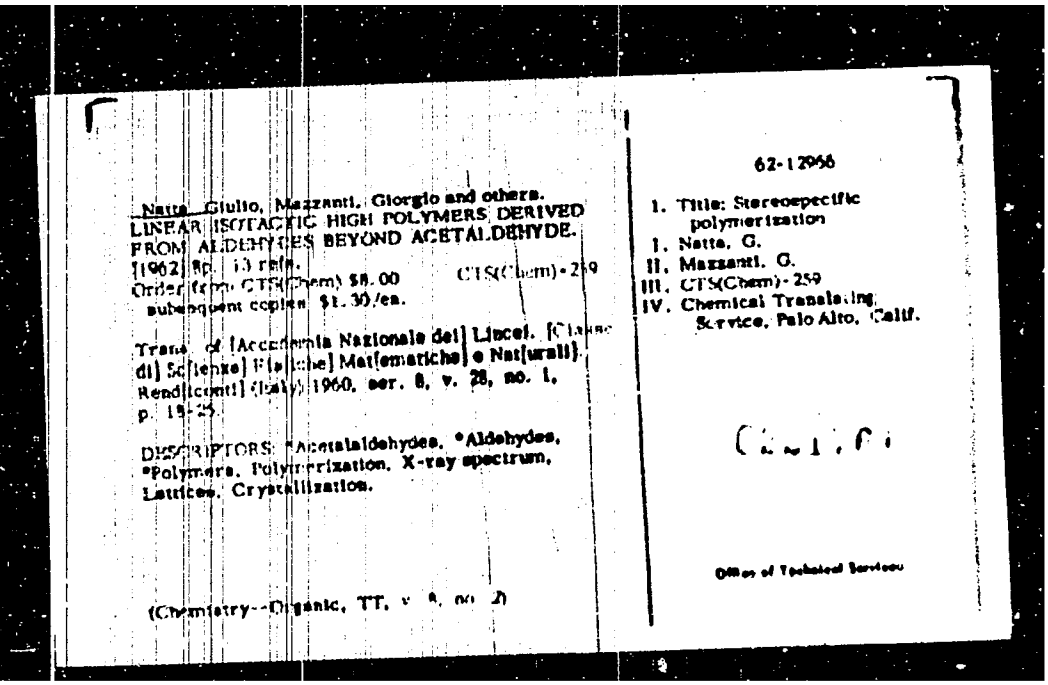

Natta, Giulio, Mazzanti, Giorgio and others.
LINEAR ISOTACTIC HIGH POLYMERS DERIVED FROM ALDEHYDES BEYOND ACETALDEHYDE.
[1962] 8p. 13 refs.
Order from CTS(Chem) $8.00 CTS(Chem)-259
subsequent copies $1.30/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, ser. 8, v. 28, no. 1, p. 19-25.

DESCRIPTORS: *Acetalaldehydes, *Aldehydes, *Polymers, Polymerization, X-ray spectrum, Lattices, Crystallization.

(Chemistry--Organic, TT, v. 4, no. 2)

62-12958

1. Title: Stereospecific polymerization
I. Natta, G.
II. Mazzanti, G.
III. CTS(Chem)-259
IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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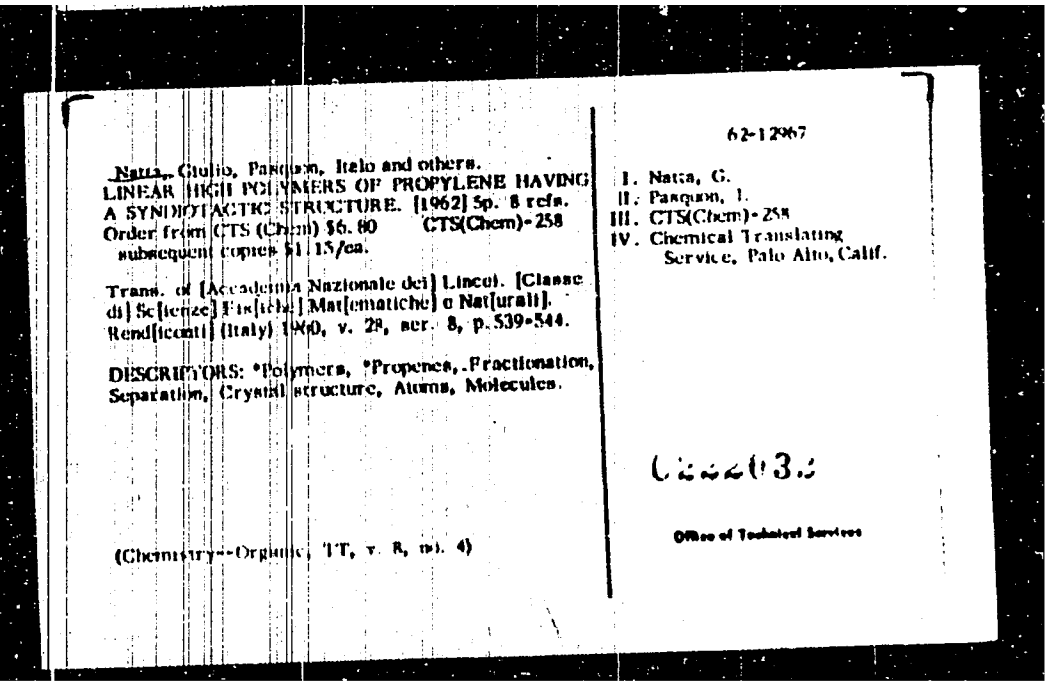

Natta, Giulio, Pasquon, Italo and others.
LINEAR HIGH POLYMERS OF PROPYLENE HAVING A SYNDIOTACTIC STRUCTURE. [1962] 5p. 8 refs.
Order from CTS (Chem) $6.80 CTS(Chem)-258
subsequent copies $1.15/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960, v. 28, ser. 8, p. 539-544.

DESCRIPTORS: *Polymers, *Propenes, Fractionation, Separation, Crystal structure, Atoms, Molecules.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12967

I. Natta, G.
II. Pasquon, I.
III. CTS(Chem)-258
IV. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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Natta, Giulio, Farina, Mario and others.
ASYMMETRIC SYNTHESES OBTAINED BY PROCESSES OF CATIONIC CHARACTER. 1961, 1180 words, 3 refs.
Order from CTS(Chem) $4.80 CTS(Chem)-205
subsequent copies $1.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1961, v. 43, no. 2, p. 161-162.

DESCRIPTORS: *Polymers, Synthesis, Catalysts, *Monocyclic compounds, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22482

I. Natta, G.
II. Farina, M.
III. Chem(CTS)-205
IV. Chemical Translating Service, Palo Alto, Calif.

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Use of Diarylcyclopentadienylidenium Derivatives for the Study of Catalysts of Low-Pressure Ethylene Polymerization,
by G. Natta, 5 pp.
ITALIAN, Per, Chimica e l'Industria, Vol. XXXIX, No 1, 1957, pp 19-20.
CFSTI TT-[illegible]-18165

Sci - Chem
Jul 66

G. Natta
305,838

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Recent Research in the Field of Olefine Chemistry,
by G. Natta, R. Ercoli, P. Nino, G. Mazzani,
P. Corradini, G. Lutzu, G. Moraglio, 31 pp.
F. Damusso,

ITALIAN, Various.

CIA/FDD/XX-82
IAC INTERNAL USE ONLY
30,998

Scientific - Chemistry Feb 56 CTS/DEX

XX-479

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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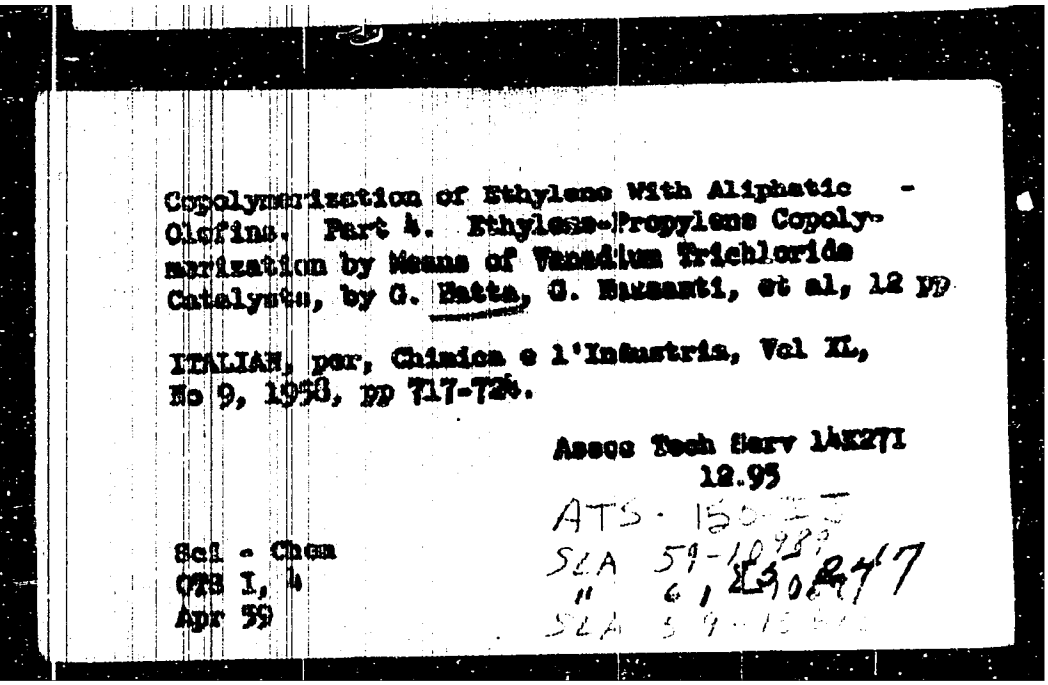

Copolymerization of Ethylene With Aliphatic - Olefins. Part 4. Ethylene-Propylene Copolymerization by Means of Vanadium Trichloride Catalysts, by G. Natta, G. Mazzanti, et al, 12 pp

ITALIAN, per, Chimica e l'Industria, Vol XL, No 9, 1958, pp 717-726.

Assoc Tech Serv 14X27I
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ATS-150-T
SLA 59-10984
" 6, 29847
SLA 59-15[illegible]

Sci - Chem
OTS I, 4
Apr 59

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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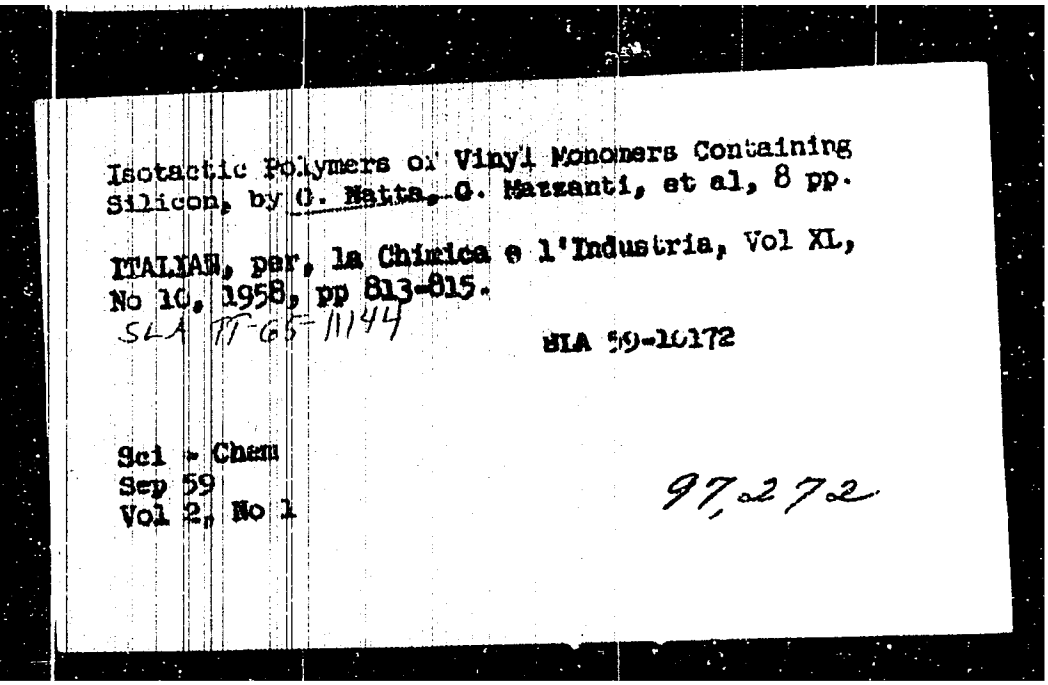

Isotactic Polymers of Vinyl Monomers Containing Silicon, by G. Natta, G. Mazzanti, et al, 8 pp.

ITALIAN, per. la Chimica e l'Industria, Vol XL, No 10, 1958, pp 813-815.

SLA TT-65-11144

DIA 59-16172

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Sep 59
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Copolymerization of Ethylene with Aliphatic
a -Olefins. V. Ethylene-Propylene Copolymerization
by Means of Titanium Halide Catalysts, by G. Natta,
A. Valvassori, et al., 17 pp.

ITALIAN, Per, Chimica e l'Industria, Vol XL, No 11,
1958, pp 896-905.

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ATS-15E-IJ

SLA-59-1725

89,525

Sci - Chem
CTS I, 9
Jun 59

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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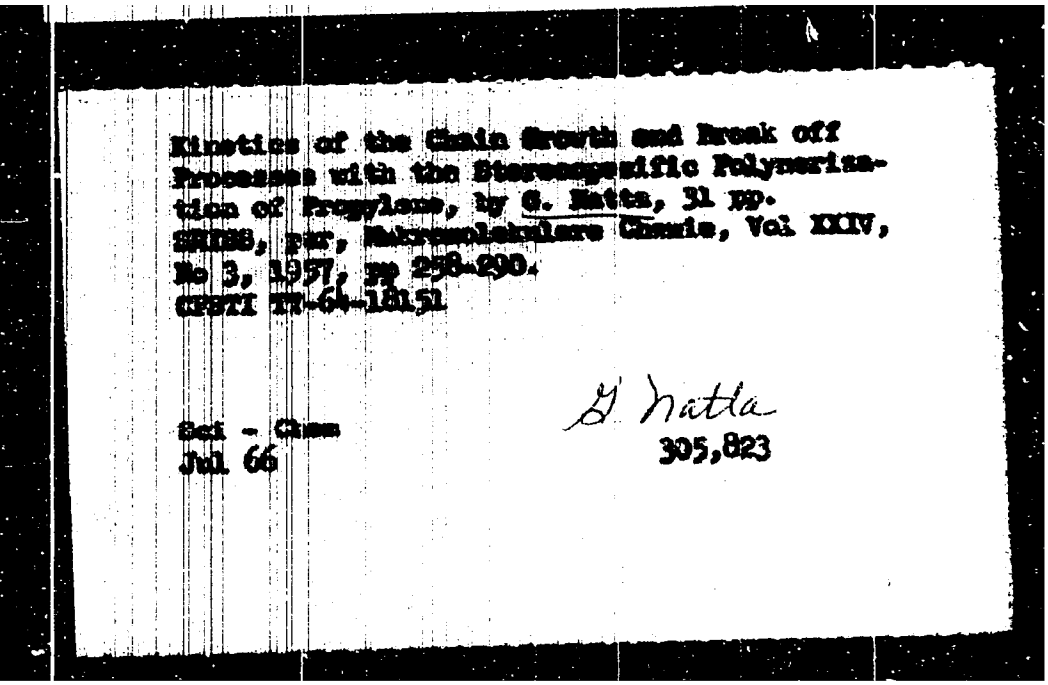

Kinetics of the Chain Growth and Break off Processes with the Stereospecific Polymerization of Propylene, by G. Natta, 31 pp. SNIAS, Per, Makromolekulare Chemie, Vol XXIV, No 3, 1957, pp 258-290. OTSTI TT-64-18151

G. Natta

305,823

Sci - Chem
Jul 66

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Stereospecific Polymerization of Conjugated Diolefins. Note III. Polymerization of Butadiene With the System $Al(C_2H_5)_3/TiCl_4$, by G. Natta, L. Porri, et al, 14 pp.

Italian, per, la Chimica e l'Industria, Vol XLI, No 5, 1959, pp 398-404.

SLA 59-17384

SLA-59-2[illegible]34

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Sci
Jan 60
Vol 2, NO 7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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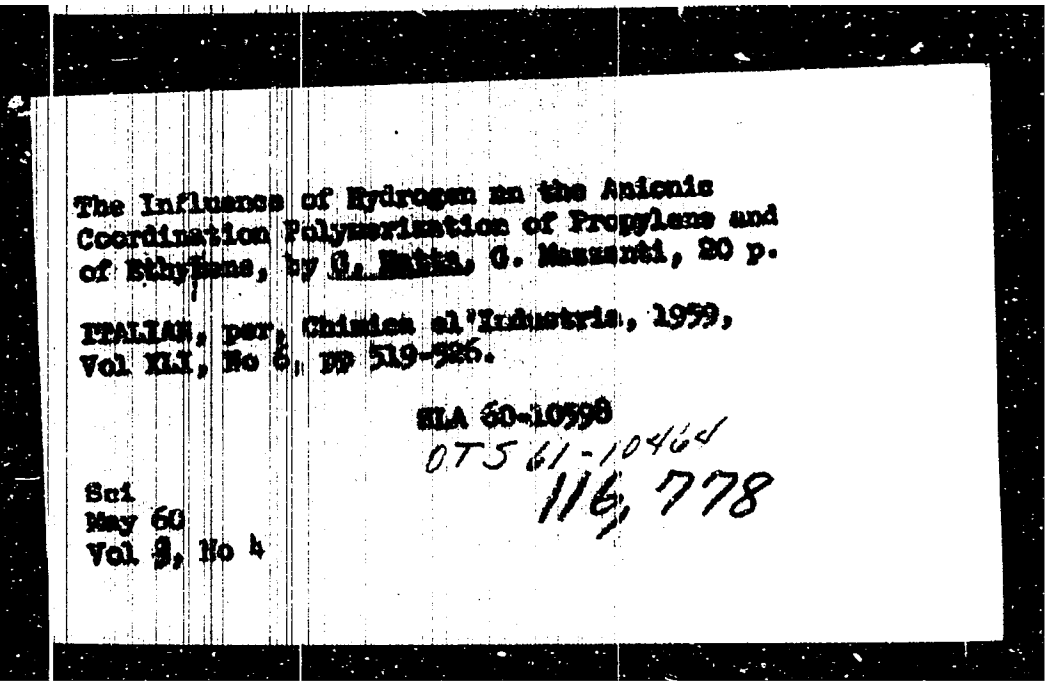

The Influence of Hydrogen on the Anionic Coordination Polymerization of Propylene and of Ethylene, by G. Natta, G. Mazzanti, 20 p.

ITALIAN, per. Chimica e l'Industria, 1959, Vol XLI, No 6, pp 519-526.

ASTIA 60-10590
OTS 61-10464
116, 778

Sci
May 60
Vol 3, No 4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

A Few Reactions of Arene Chromiumcarbonyls,
by G. Natta, R. Ercoli, et al., 24 pp.

ITALIAN, per, La Chimica e l'Industria, 1958,
Vol XL, No 12, pp 1003-1007.

NSA 13-10825

Sci - Chem
CSS I, 12
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Bassi, I., and Corradini, P.
ON THE CHAIN STRUCTURE OF CRYSTALLINE POLYVINYL ISOBUTYL ETHER. [1963] 7p. (figs. omitted) 16 refs.
Order from SLA $1.10 63-14194

Trans. of Makromolekulare Chemie (Switzerland) 1958, v. 17, Dec, p. 455-462.

DESCRIPTORS: *Molecular structure, Crystal structure, *Acetal plastics, Ethers, Plastics.

The chain structure of crystalline polyvinyl isobutyl ether, prepared by a cationic catalysis mechanism, is discussed. The x-ray photo data are interpreted with the aid of the molecular transformation method, and it is concluded that the polymer is isotactic in the crystal phase (that is, the asymmetrical carbon atoms all have the same steric (space) configuration), and the polymer
(Chemistry--Physical, TT, v. 10, no. 9) (over)

63-14194

1. Title: Polyvinylisobutyl ether
I. Natta, G.
II. Bassi, I.
III. Corradini, P.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G[iulio] Bassi, I[vano Walter] and Corradini, P[aolo].
THE CHAIN STRUCTURE OF CRYSTALLINE POLYVINYL ISOBUTYL ETHER. [1963] 11p (figs omitted). Order from K-H $11.00 K-H 5388 a

Trans. of Makromolekulare Chemie (Switzerland) 1958, v. 18/19, p. 455-462.

DESCRIPTORS: Ethers, *Butyl radicals, *Vinyl radicals, Polymers, Crystallization, Molecular structure

(Chemistry--Organic, TT, v. 11, no. 2)

TT-63-22[illegible]

I. Natta, G. I.
II. Bassi, I. W.
III. Corradini, P.
IV. K-H-5388-a
V. Kresge-Hooker Science Library Associates, Detroit, Mich.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Titanium- and Aluminum-Containing Crystallizable Complexes Possessing Catalytic Activity in the Polymerization of Ethlene, by G. Natta et al, 8 pp.

ITALIAN, per, J. Inorg & Nuclear Chem, Vol VIII, 1958, pp 612-619.

ATS 153-IJ
ATS 51129I

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Nov 59

100,405

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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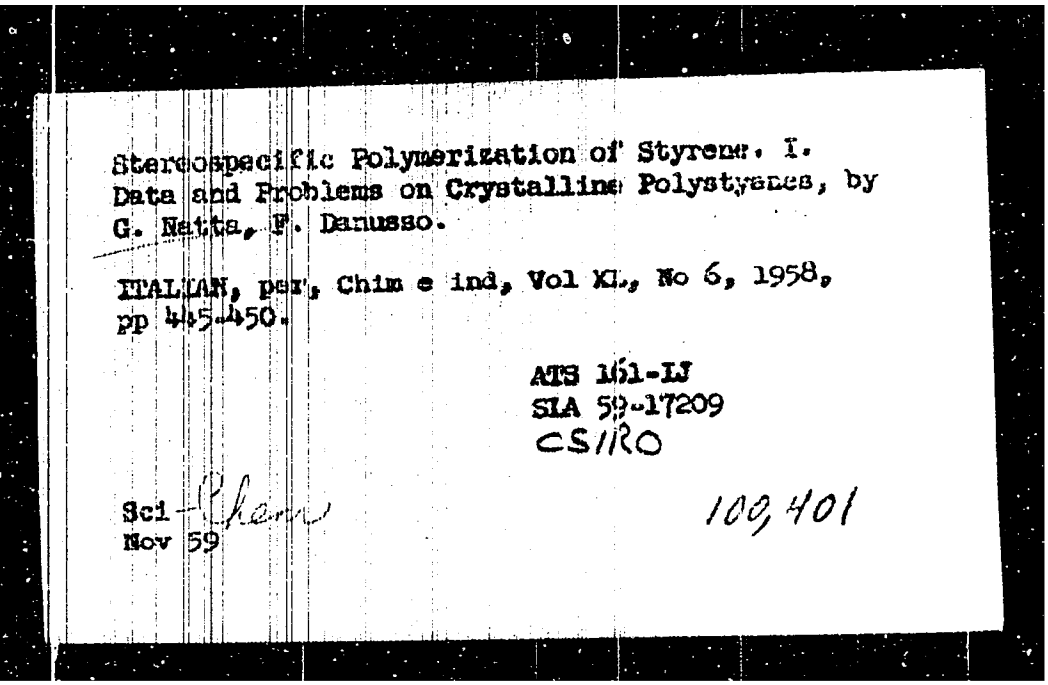

Stereospecific Polymerization of Styrene. I. Data and Problems on Crystalline Polystyrenes, by G. Natta, F. Danusso.

ITALIAN, per, Chim e ind, Vol XL, No 6, 1958, pp 445-450.

ATS 161-LJ
SIA 59-17209
CSIRO

Sci - Chem
Nov 59

109,401

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Comparison, Between the Synthesis of Esters
From Acetylene and Ethylene by Reaction
with Carbon Monoxide and Alcohols,
by G. Natta, P. Pino.
ITALIAN, per. Chimica e l'Industria, Vol XXXIV,
1952, pp 449-453. No 8.
SLA TT 64-20344

G Natta

May 67 3285,068

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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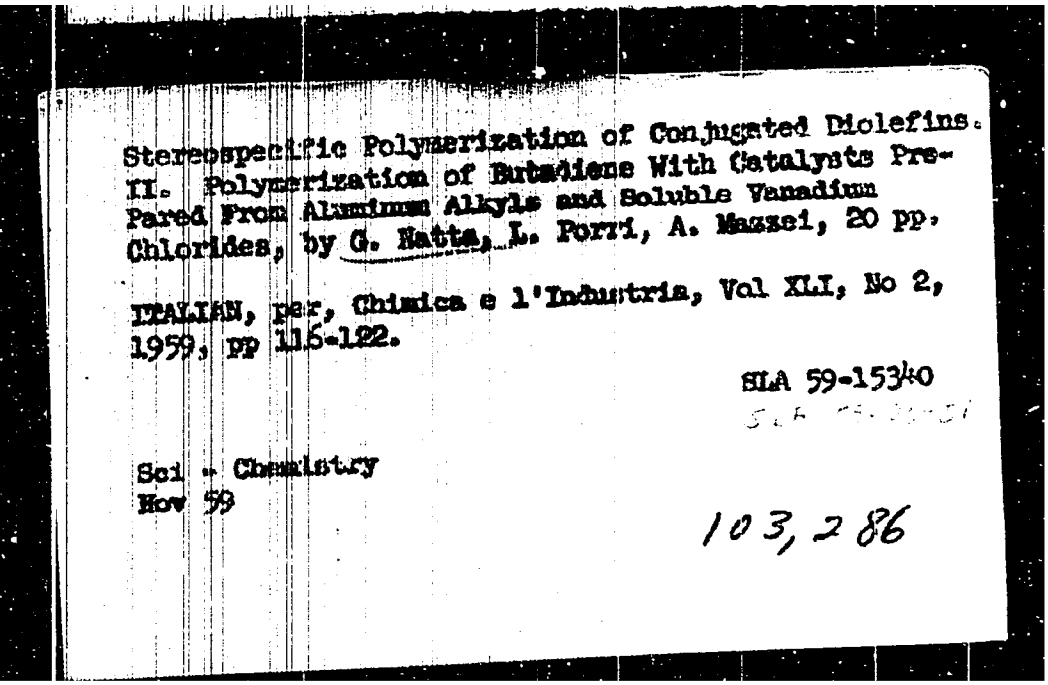

Stereospecific Polymerization of Conjugated Diolefins. II. Polymerization of Butadiene With Catalysts Prepared From Aluminum Alkyls and Soluble Vanadium Chlorides, by G. Natta, L. Porri, A. Mazzei, 20 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLI, No 2, 1959, pp 116-122.

SLA 59-15340

Sci - Chemistry
Nov 59

103,286

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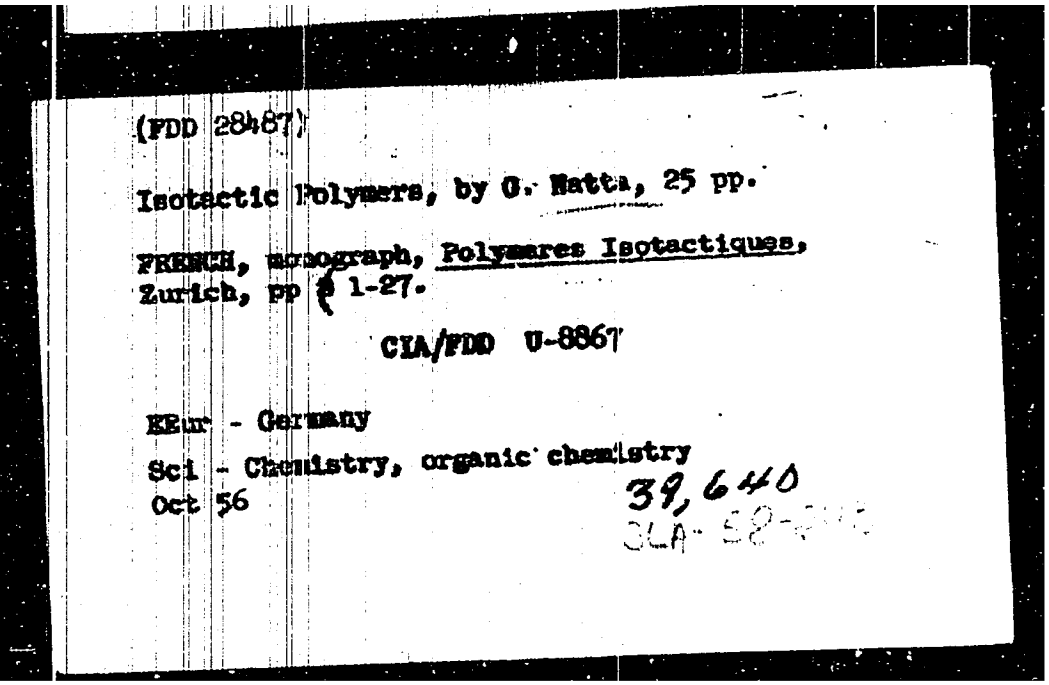

(FDD 2848?)

Isotactic Polymers, by G. Natta, 25 pp.

FRENCH, monograph, Polymeres Isotactiques, Zurich, pp 1-27.

CIA/FDD U-8867

EEur - Germany
Sci - Chemistry, organic chemistry
Oct 56

39,640

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

(FDD 27251)

Isotactic Polymers, by G. Natta, 3 pp.

FRENCH, article in GERMAN irreg per, Die Makromolekulare Chemie, Vol XVI, No 3, Germany (Western Zone), Switzerland, Oct 1955, pp 213-237.

CIA/FDD/U-7909

32,371

WEur - Italy
Sci - Chemistry

Feb 1956 CTS (Blumenthal)

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

The Elastomeric Properties of Ethylene-Propylene Copolymers, by G. Natta, G. Crespi, 12 pp.

ITALIAN, Per, la Chim e l'Industria, 1959, Vol XLI, No 2, pp 123-128.

UCLA 59-15528
OTS 61-10459

Sci
Oct 59
Vol 2, No 3

99,890

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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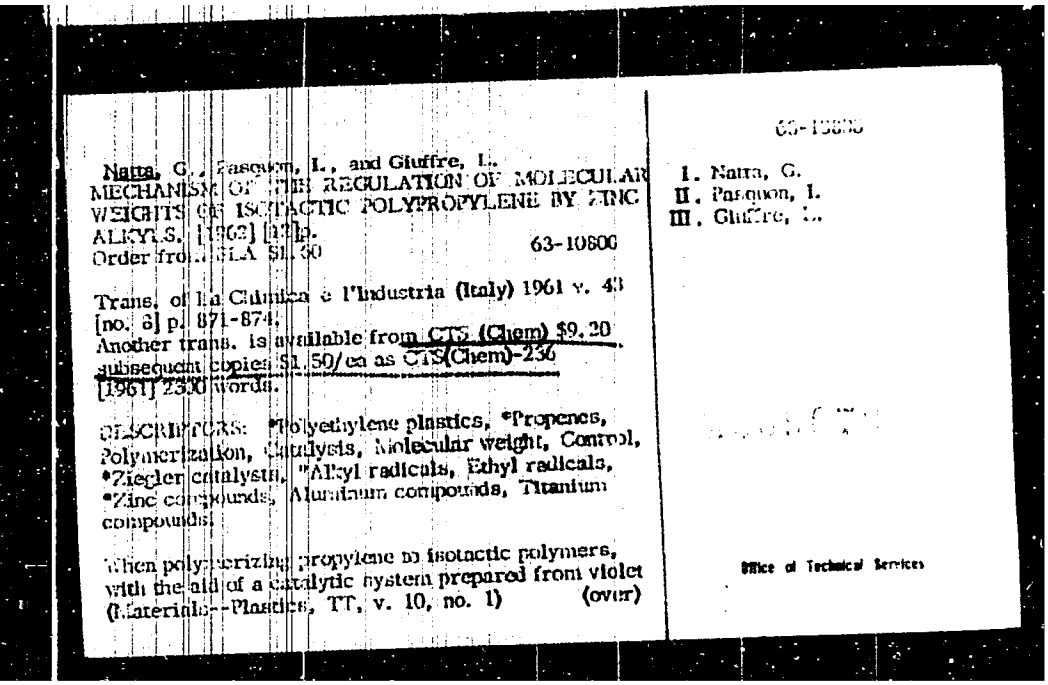


Natta, G., Pasquon, I., and Giuffre, L.
MECHANISM OF THE REGULATION OF MOLECULAR WEIGHTS OF ISOTACTIC POLYPROPYLENE BY ZINC ALKYLS. [1962] [12]p.
Order from OTS $1.50 63-10800

Trans. of La Chimica e l'Industria (Italy) 1961 v. 43 [no. 8] p. 871-874.
Another trans. is available from CTS (Chem) $9.20 subsequent copies $1.50/ea as CTS(Chem)-236 [1961] 2300 words.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Catalysis, Molecular weight, Control, *Ziegler catalysts, *Alkyl radicals, Ethyl radicals, *Zinc compounds, Aluminum compounds, Titanium compounds.

When polymerizing propylene to isotactic polymers, with the aid of a catalytic system prepared from violet (Materials--Plastics, TT, v. 10, no. 1) (over)

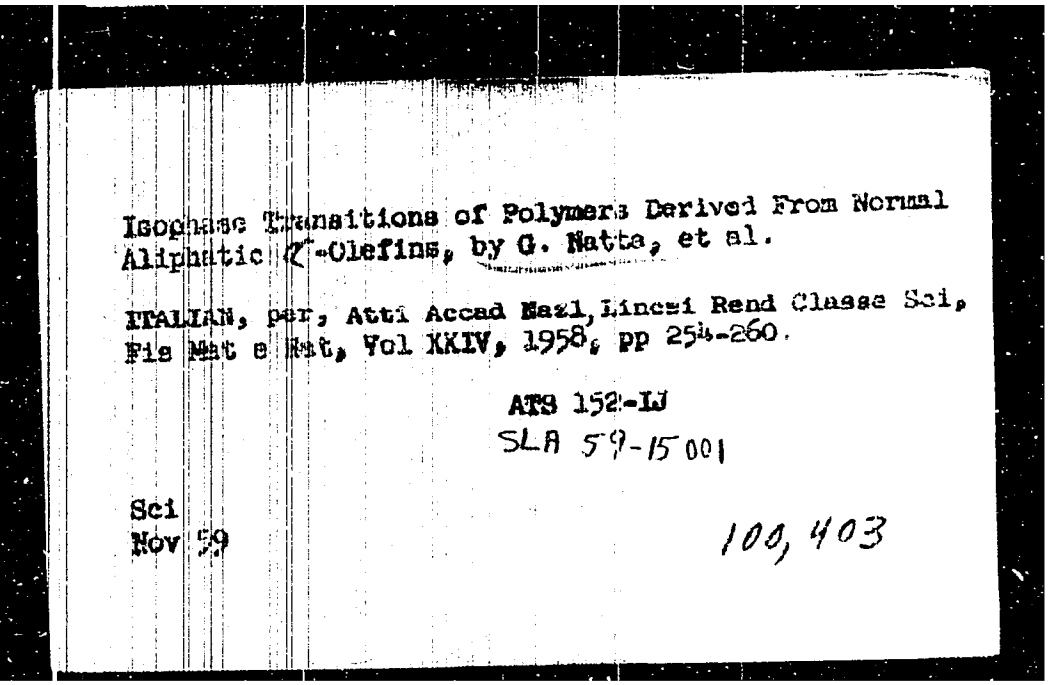
63-10800

I. Natta, G.
II. Pasquon, I.
III. Giuffre, L.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4



Isophase Transitions of Polymers Derived From Normal Aliphatic α-Olefins, by G. Natta, et al.

ITALIAN, per, Atti Accad Nazl, Lincei Rend Classe Sci, Fis Mat e Nat, Vol XXIV, 1958, pp 254-260.

ATS 152-LJ
SLA 59-15001

Sci
Nov 59

100,403

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts. Part IV., The Influence of Temperature and Pressure on the Kinetics of Polymeric Chain Growth and Termination Processes, by G. Natta, I. Pasquon, 21 p.

ITALIAN, per, la Chim e Ind, 1958, Vol XL, No 2, pp 103-111.

ELA 59-20710 110,867

Sci Mar 60 Vol 3, No 1

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Atactic and Stereoblock Polymers from Alpha-Olefins, by G. Natta, G. Mazzanti, P. Longi, 17 pp.

ITALIAN, Per., la Chimica e l'Industria, 1958, Vol XL, No 3, pp 183-188.

SLA 59 15515

99,889

Sci
Oct 59
Vol 2, No 3

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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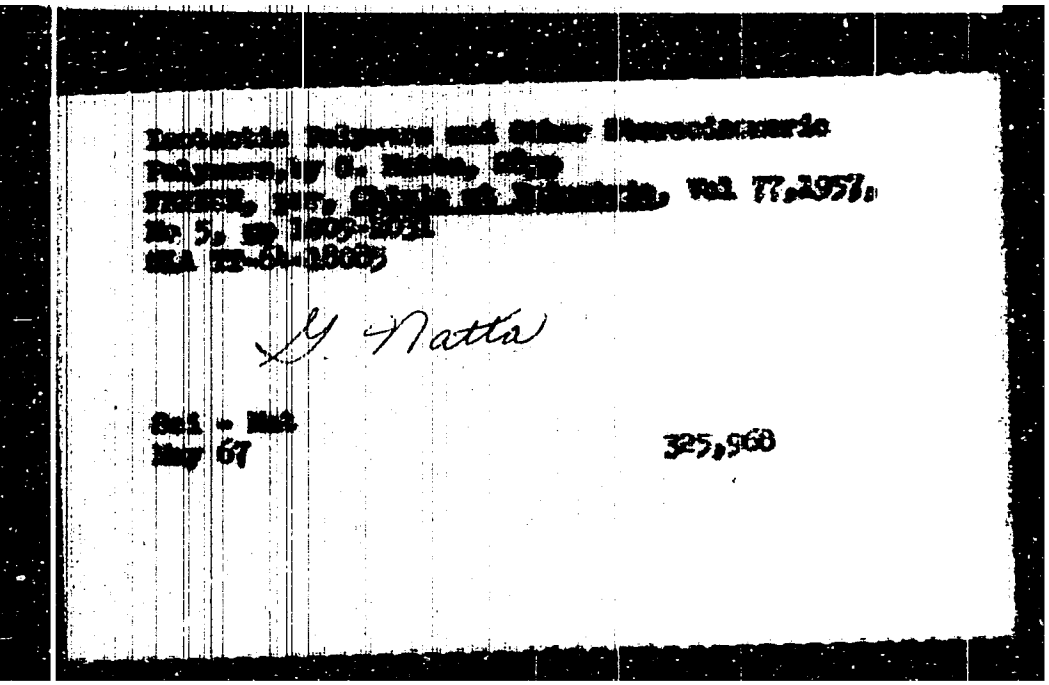

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Pasquon, I. and others.
KINETICS OF PROPYLENE POLYMERIZATION WITH HIGHLY STEREOSPECIFIC HETEROGENEOUS CATALYSTS. V. STUDY OF CHAIN TRANSFER PROCESSES BY THE USE OF C^{14} LABELED ALKYL ALUMINUMS. [1960] [28]p. 11 refs.
Order from SLA mi$2.70, pb$4.80 61-10471

Trans. of la Chimica e l'Industria (Italy) 1958, v. 40 [no. 4] p. 267-273.

The use of triethyl aluminum labeled with C^{14} made it possible to demonstrate that in the polymerization of propylene in the presence of the $TiCl_3$ (violet modification)-$Al(C_2H_5)_3$-n-heptane catalytic system, a part of the polymeric chain growth scission processes, and in particular those depending upon the concentrations of each component of the catalyst, take place by an introduction of the C_2H_5-group formed from the $Al(C_2H_5)_3$ into the polymer. The orders of the rate of the polymeric chain rupture processes with respect (over)
(Chemistry--Organic, TT. v. 5, no. 6)

61-10471

1. Propenes--Polymerization
2. Polymerization--Analysis
I. Natta, G.
II. Pasquon, I.
III. Title: Study...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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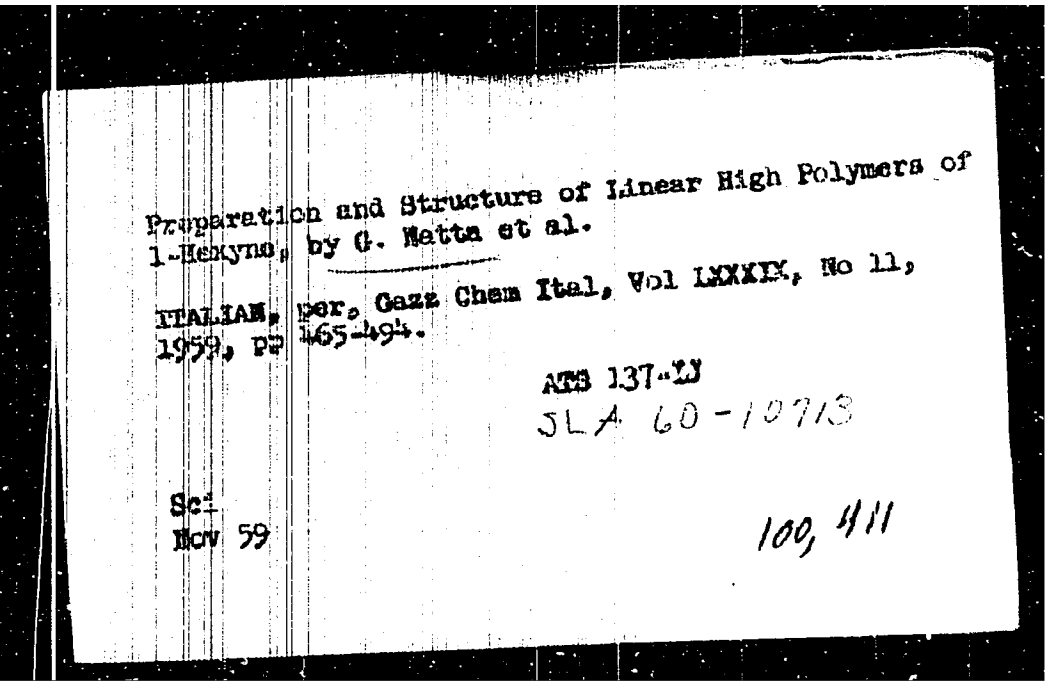

Preparation and Structure of Linear High Polymers of 1-Hexyne, by G. Natta et al.

ITALIAN, per. Gazz Chem Ital, Vol LXXXIX, No 11, 1959, pp 465-494.

ATS 137-59
SLA 60-10713

Sci
Nov 59

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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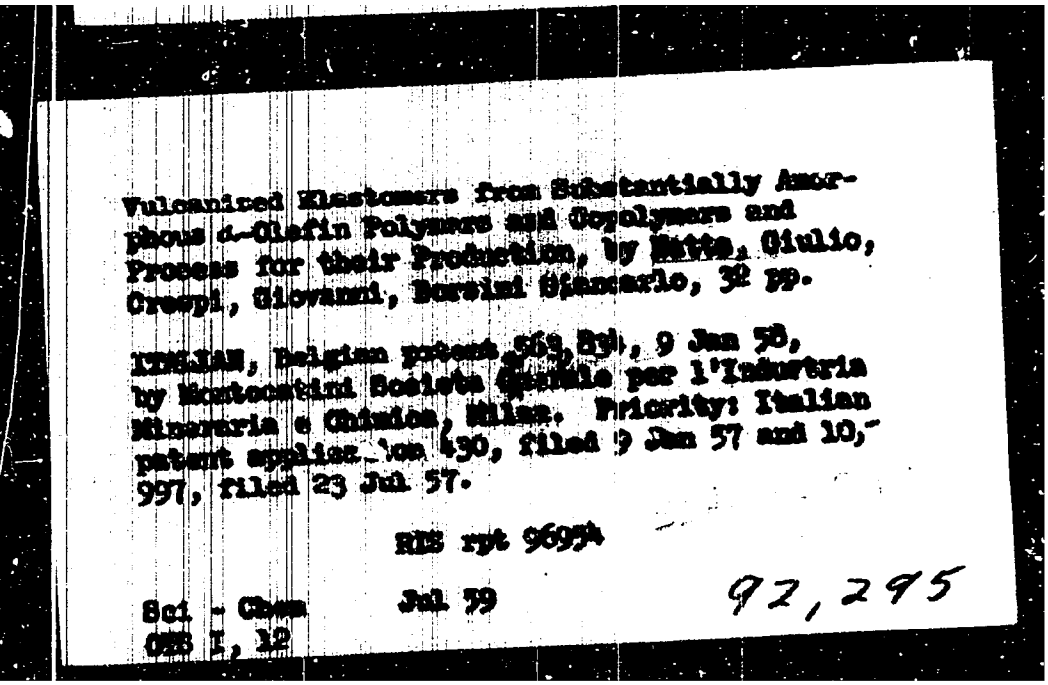

Vulcanized Elastomers from Substantially Amorphous α-Olefin Polymers and Copolymers and Process for their Production, by Natta, Giulio, Crespi, Giovanni, Bursini Giancarlo, 32 pp.

ITALIAN, Belgian patent 563,891, 9 Jan 58, by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan. Priority: Italian patent applic. No 430, filed 9 Jan 57 and 10,997, filed 23 Jul 57.

RIE ryt 9695

Sci - Chem
OTS 1, 12

Jul 59

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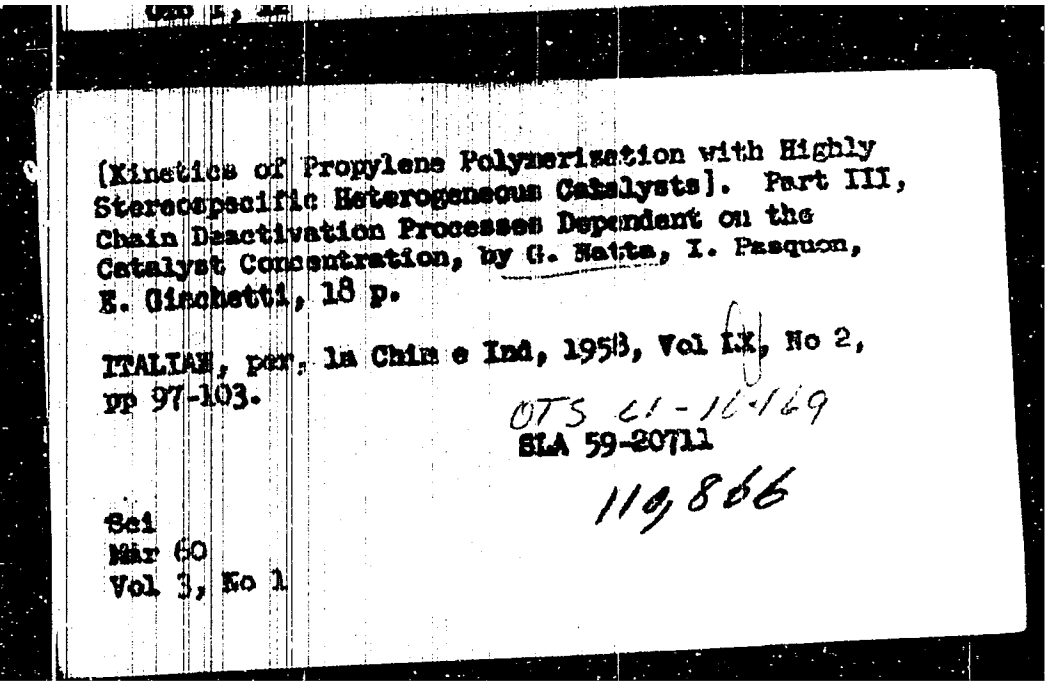

[Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts]. Part III, Chain Deactivation Processes Dependent on the Catalyst Concentration, by G. Natta, I. Pasquon, E. Giachetti, 18 p.

ITALIAN, per. la Chim e Ind, 1958, Vol IX, No 2, pp 97-103.

OTS 61-16169
SLA 59-20711

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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The Structure of the Alkali Cyanides and Their Isomorphism With the Halides, by G. Natta, L. Passerini, 23 pp.

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S.L.A. Tr No 439/1955

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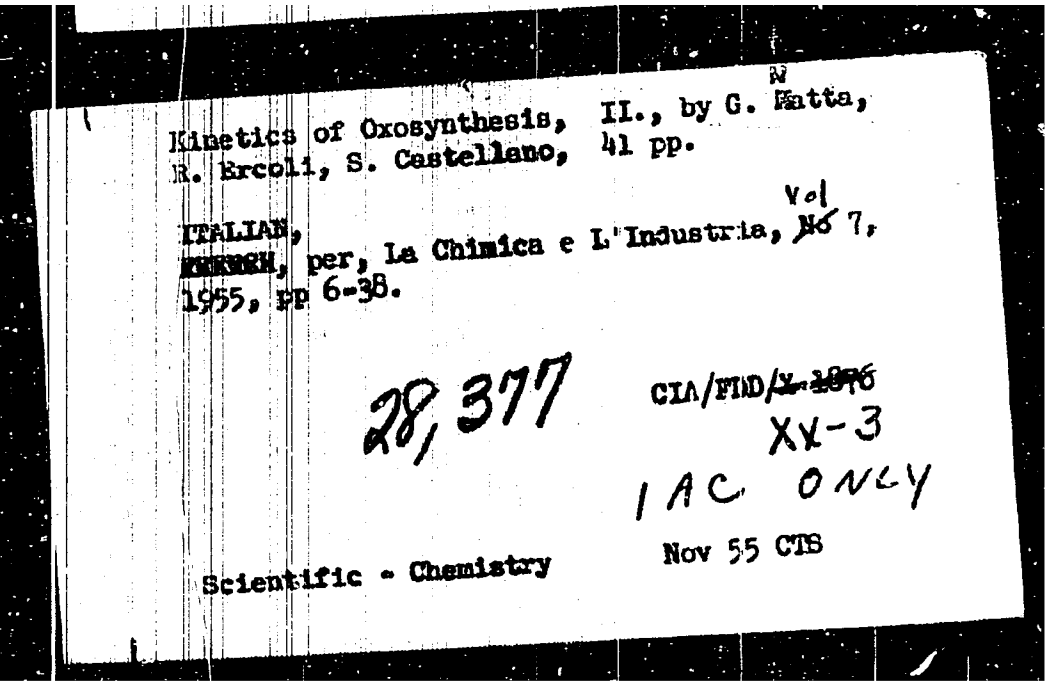

Kinetics of Oxosynthesis, II., by G. Natta, R. Ercoli, S. Castellano, 41 pp.

ITALIAN,
per, La Chimica e L'Industria, Vol 7, 1955, pp 6-38.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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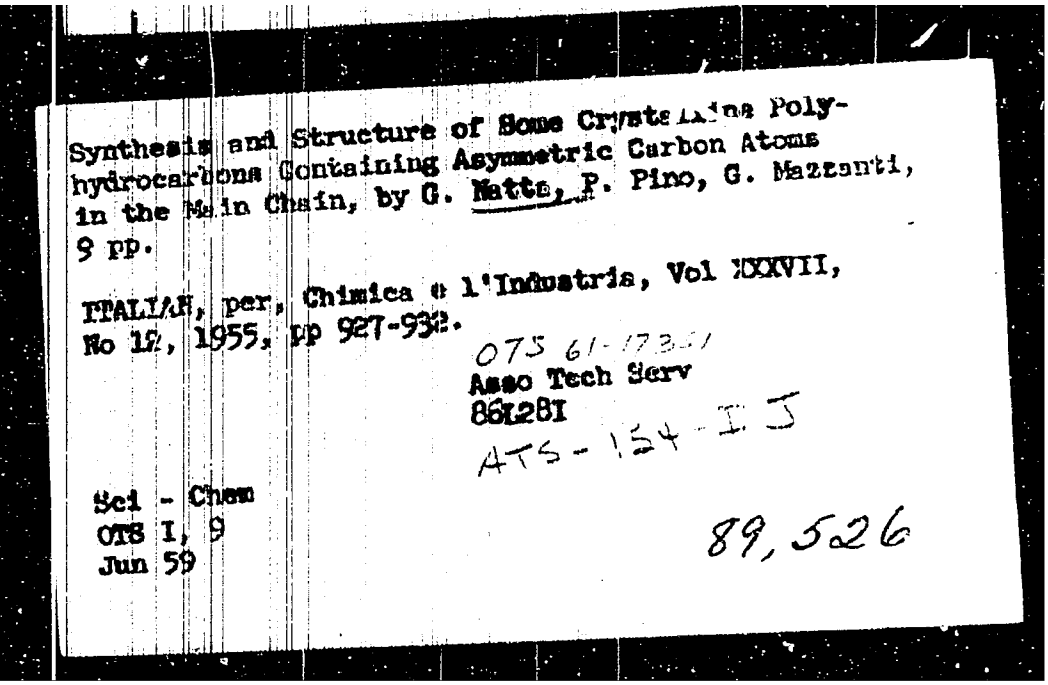

Synthesis and Structure of Some Crystalline Polyhydrocarbons Containing Asymmetric Carbon Atoms in the Main Chain, by G. Natta, P. Pino, G. Mazzanti, 9 pp.

ITALIAN, per. Chimica e l'Industria, Vol XXXVII, No 12, 1955, pp 927-932.

OTS 61-17311
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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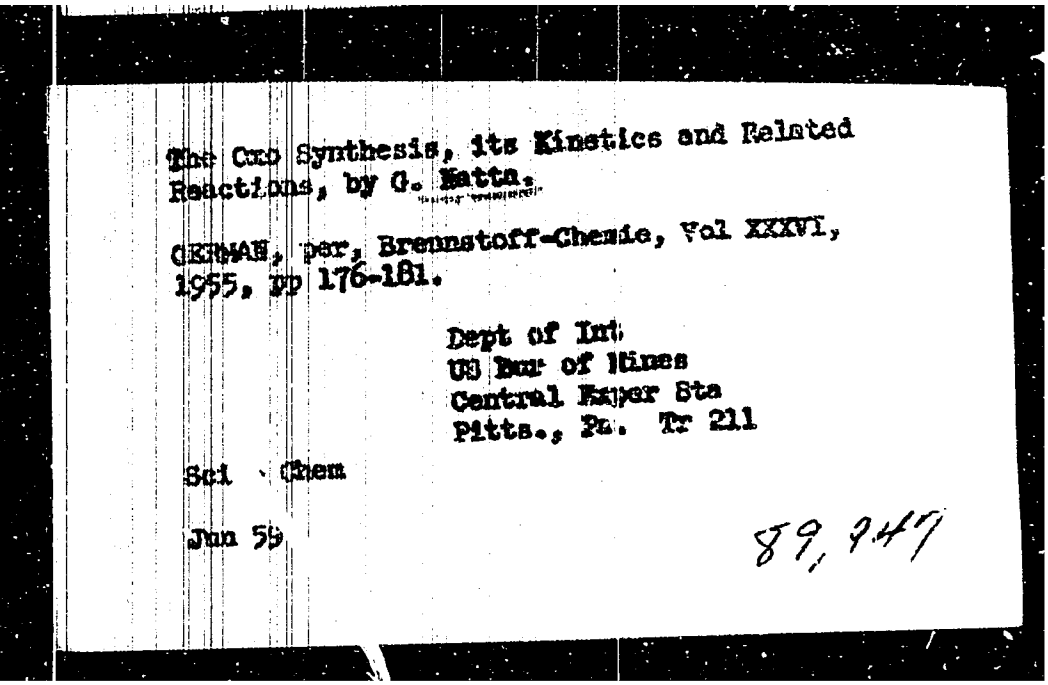

The Oxo Synthesis, its Kinetics and Related Reactions, by G. Natta.

GERMAN, per, Brennstoff-Chemie, Vol XXXVI, 1955, pp 176-181.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Pino, P. and others
SYNTHESIS AND CHARACTERISTICS OF NEW POLYMERS OF THE ALPHA OLEFINS WITH EXCEPTIONALLY REGULAR STRUCTURE. [1961] [7]p.
Order from SLA $1.10 62-14034

Trans. of mono. (paper) from World Petroleum Congress (no. 4) [Rome, 1955]. Proceedings, sect. IV/C.

DESCRIPTORS: *Polymers, *Ethylenes, *Petroleum, Synthesis, Crystals, Mechanical properties.

Topics discussed include (1) generalities of the polymers of alpha olefins, (2) synthesis and characteristics of crystalline polymers of alpha olefins, and (3) mechanical properties of isotaxic polymers.

(Chemistry--Organic, TT, v. 8, no. 7)

62-14034

I. Natta, G.
II. Pino, P.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

A New Class of α-olefinic Polymers Having an Exceptional Regularity of Structure, by G. Natta, 11 pp.

ITALIAN, per, J. Polymer Sci, V No 16, 1955, pp 143-154.

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IAC Internal Use Only

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Scientific - Chemistry Nov 55 CIS

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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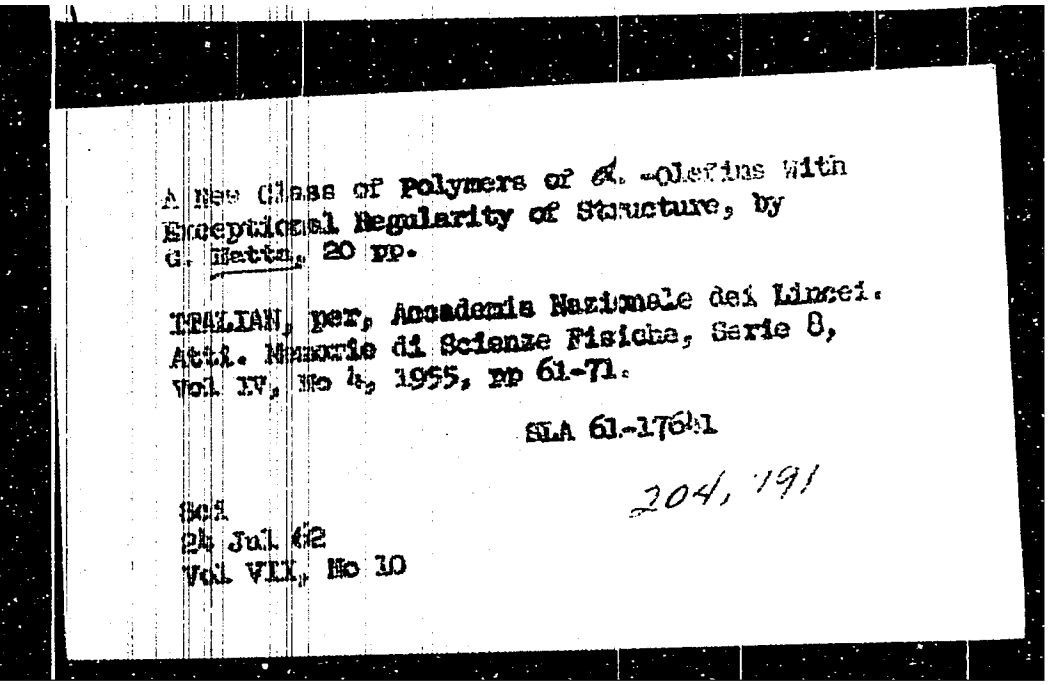

A New Class of Polymers of α-Olefins With Exceptional Regularity of Structure, by G. Natta, 20 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Memorie di Scienze Fisiche, Serie 8, Vol IV, No 4, 1955, pp 61-71.

SLA 61-17681

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Vol VII, No 10

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

X-Ray Studies on Crystallinity and Structure of High Molecular Weight Hydrocarbons, by G. Natta, P. Corradini, 17 PP.

ENGR ITALIAN, per, Ricerce Scientifica, Vol XXV, 1955, pp 695-706.

SLA 61-17634

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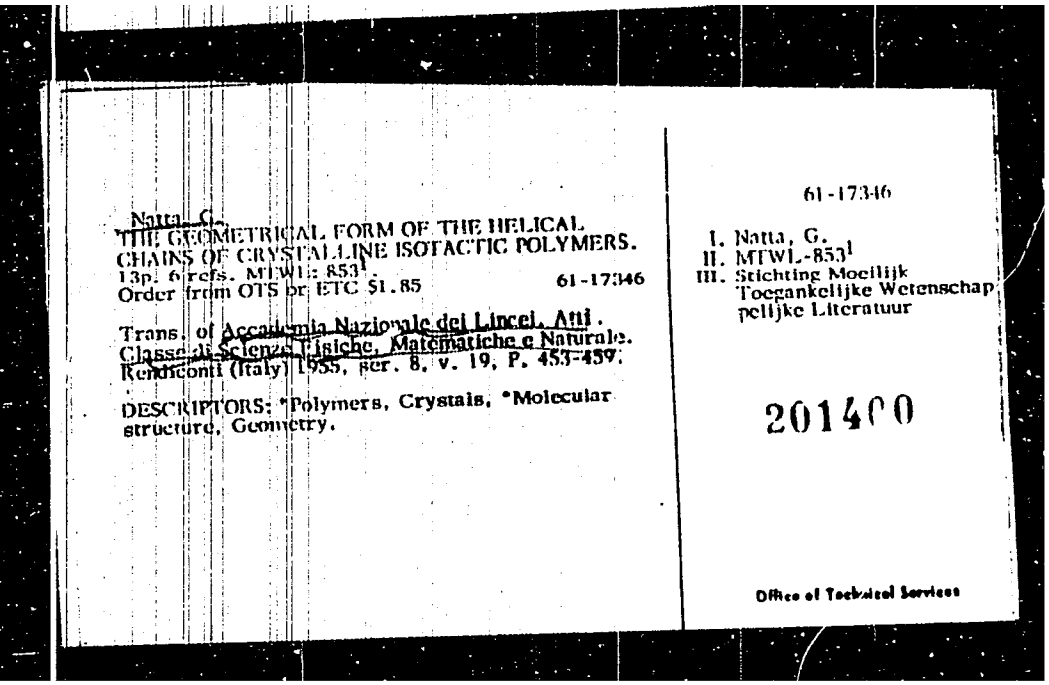

Natta, G.
THE GEOMETRICAL FORM OF THE HELICAL CHAINS OF CRYSTALLINE ISOTACTIC POLYMERS.
13p. 6 refs. MTWL-853[1].
Order from OTS or ETC $1.85 61-17346

Trans. of Accademia Nazionale dei Lincei, Atti. Classe di Scienze Fisiche, Matematiche e Naturale. Rendiconti (Italy) 1955, ser. 8, v. 19, P. 453-459.

DESCRIPTORS: *Polymers, Crystals, *Molecular structure, Geometry.

61-17346

I. Natta, G.
II. MTWL-853[1]
III. Stichting Mocilijk Toegankelijke Wetenschappelijke Literatuur

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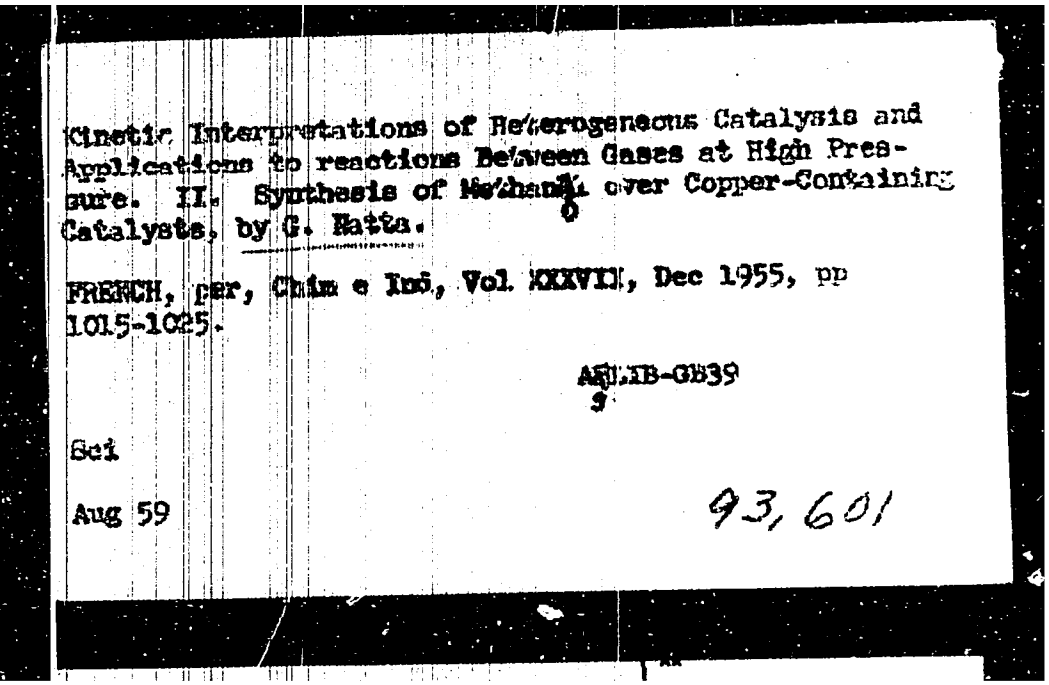

Kinetic Interpretations of Heterogeneous Catalysis and Applications to reactions Between Gases at High Pressure. II. Synthesis of Methanol over Copper-Containing Catalysts, by G. Natta.

FRENCH, per, Chim e Ind, Vol XXXVII, Dec 1955, pp 1015-1025.

AFLRB-GB39

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Aug 59

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Pino, P., and Mazzanti, G.
HIGH MOLECULAR WEIGHT POLYMERS OF ACETYLENIC HYDROCARBONS AND METHODS FOR THEIR PREPARATION. [1961] 6p.
Order from ATS 12.60 ATS-04N511

Trans. of Italian patent 530,753, filed 18 Mar 55, granted 15 Jul 55.

DESCRIPTORS: *Polymers, Molecular weight, Synthesis, *Acetylenes, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22336

I. Natta, G.
II. Pino, P.
III. Mazzanti, G.
IV. Patent (Italy) 530 753
V. ATS-04N511
VI. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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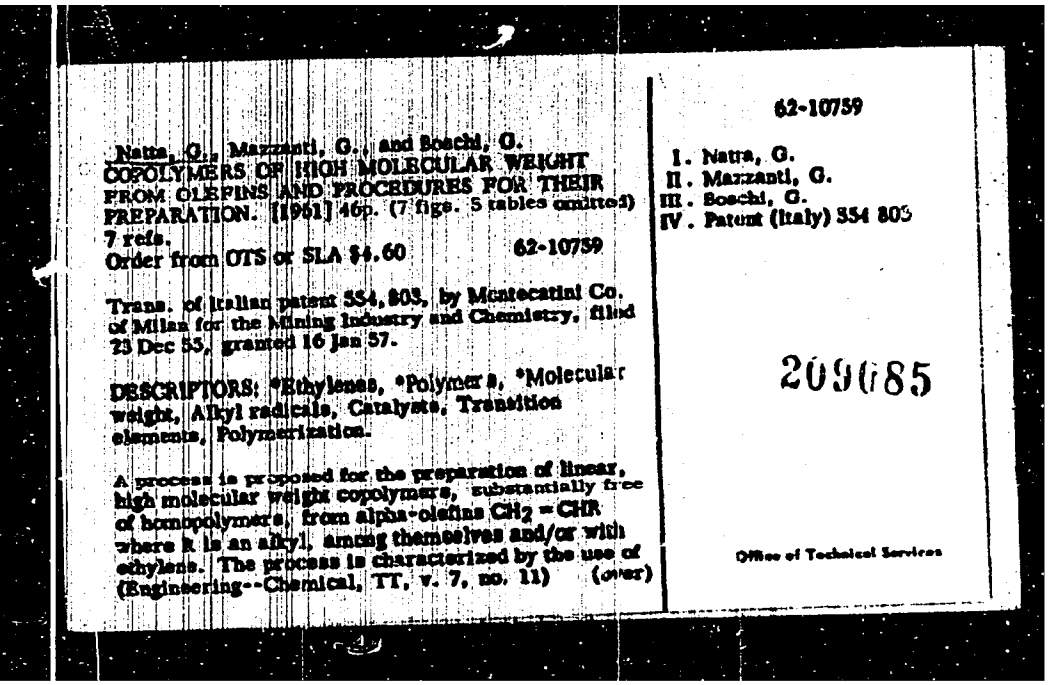

Natta, G., Mazzanti, G., and Boschi, G.
COPOLYMERS OF HIGH MOLECULAR WEIGHT FROM OLEFINS AND PROCEDURES FOR THEIR PREPARATION. [1961] 46p. (7 figs. 5 tables omitted) 7 refs.
Order from OTS or SLA $4.60 62-10759

Trans. of Italian patent 554,805, by Montecatini Co. of Milan for the Mining Industry and Chemistry, filed 23 Dec 55, granted 16 Jan 57.

DESCRIPTORS: *Ethylenes, *Polymers, *Molecular weight, Alkyl radicals, Catalysts, Transition elements, Polymerization.

A process is proposed for the preparation of linear, high molecular weight copolymers, substantially free of homopolymers, from alpha-olefins $CH_2 = CHR$ where R is an alkyl, among themselves and/or with ethylene. The process is characterized by the use of (over)
(Engineering--Chemical, TT, v. 7, no. 11)

62-10759

I. Natta, G.
II. Mazzanti, G.
III. Boschi, G.
IV. Patent (Italy) 554 805

209685

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G.
STEREOSPECIFIC CATALYSIS AND ISOTACTIC POLYMERS [Stereospezifische Katalysen und Isotaktische Polymers]. [1961] 30p. 34 refs.
Order from ES $15.00

Trans. of Angew[andte] Chem[ie] (West Germany) 1956, v. 68, p. 393-[403] (Also pub. in la Chimica e l'Industria (Italy) 1956, v. 38, p. 751ff).
Another translation is available from SLA $3.60 as 61-16700 [1961] [39]p.

DESCRIPTORS: *Catalysis, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25135

1. Title: Isotactic polymers
2. Title: Stereospecific polymerization
I. Natta, G.
II. Stux, Erica, Akron, Ohio

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Corradini, P., and Porri, L.
THE STRUCTURE OF NEW POLYMERS OF CONJUGATE DIOLEFINS CONTAINING 1-4 TRANS LINKAGES.
12p. MTWL: 872.
Order from OTS or ETC $1.85 61-17636

Trans. of Accademia Nazionale dei Lincei, Atti. Classe di Scienze Fisiche e Matematiche. Rendiconti. (Italy) 1956, Ser. 8, v. 20, p. 728-734.

DESCRIPTORS: *Polymers, *Butadienes, *Isoprene, X-ray diffraction analysis, Structures.

61-17636

I. Natta, G.
II. Corradini, P.
III. Porri, L.
IV. MTWL-872
V. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Structure of the Chain of Crystalline Poly (Ha Propylene Oxide), by G. Natta, 11 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Atti. Classe di Scienze Fisiche, Matematiche e Naturali. Rendiconti. Serial 8 8, Vol XX, 1956, pp 408-413.

SLA 61-17646

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Stereospecific Polymerization of α-Olefins, by G. Natta, 9 pp.

FRENCH, per, Chemica e l'industria, Vol XXXVIII, No 2, 1956, pp 124-127.

SLA Tr 1502/56

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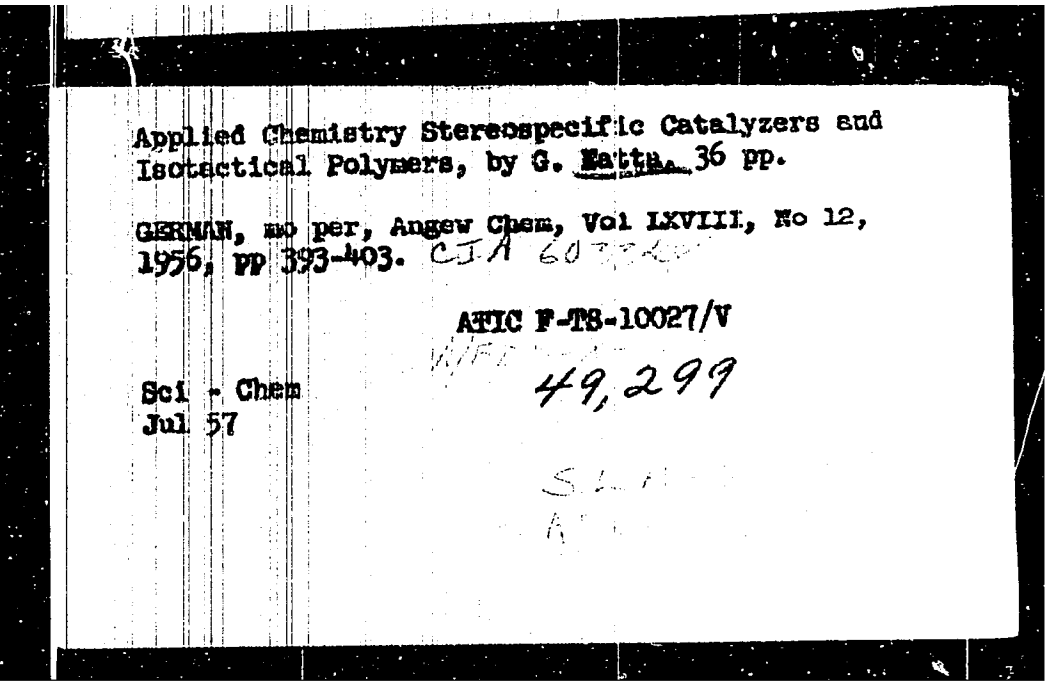

Applied Chemistry Stereospecific Catalyzers and Isotactical Polymers, by G. Natta, 36 pp.

GERMAN, no per, Angew Chem, Vol LXVIII, No 12, 1956, pp 393-403. CIA 60

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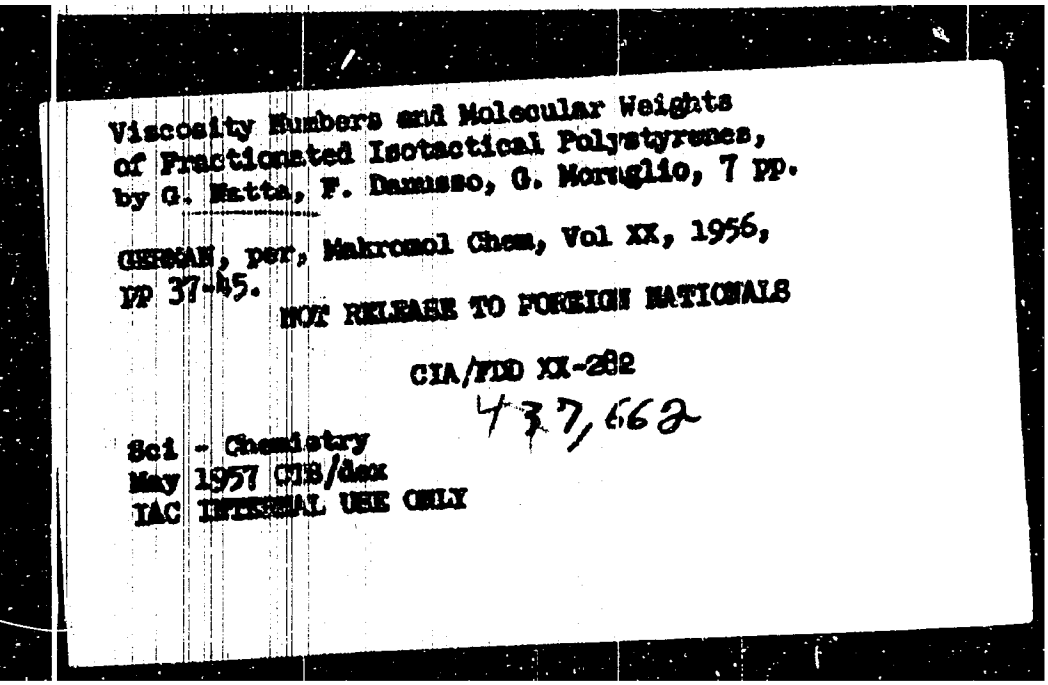

Viscosity Numbers and Molecular Weights
of Fractionated Isotactical Polystyrenes,
by G. Natta, F. Danusso, G. Moraglio, 7 pp.

CHEMCAN, per, Makromol Chem, Vol XX, 1956,
pp 37-45.

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Sci - Chemistry
May 1957 CIB/dmx
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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Crystal Structure of 1, 4-Cis-Polybutadiene and 1, 4-Cis-Polyisoprene, by G. Natta, P. Corradini, 6 pp.

GERMAN, per, Angew Chem, Vol LXVIII, 1956, pp 615-616.

SIA 59-10603

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Preliminary Report on the Crystal Structure of Isotactic Poly-2-Butene, by G. Natta, P. Corradini, I. W. Bassi, 4 pp.

GERMAN, per, Makromol Chem, Vol XXI, No 3, Dec 1956, pp 240-244.

SLA Tr 57-1175

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Process for the Polymerization of Acrylonitrile and Polymers Obtained Thereby, by G. Natta, G. dall' Asta, 6 pp.

FRENCH, patent, 1, 183,644, cl. 8 gr. 14, Internat. cl. C 08 f, appl, 1 Oct 57, granted 26 Jan 59, pub. 9 July 59 (Priority; Italy, 4 Oct 56) by Montecatini (Soc. Gen. Industria Mineraria e Chimica).

SLA 60-10730

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, G., Porri, L. and others.
ISOTACTIC TRANS-1, 4 POLYMERS OF 1, 3-PENTADIENE. 1961, 2250 words, 3 refs.
Order from CTS(Chem) $9.00 CTS(Chem)-222
Subsequent copies $1.50/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fi[ziche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1960 [ser. 8] v. 29, p. 257-264.

DESCRIPTORS: *Pentadienes, *Polymers, Synthesis, Polymerization.

(Chemistry--Organic, TT. v. 6, no. 10)

61-25422

I. Natta, G.
II. Porri, L.
III. CTS(Chem)-222
IV. Chemical Translating Service, Palo Alto, Calif.

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

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A Process for the Preparation of Linear Polymers of Aromatic Vinylic Hydrocarbons, and Products Obtained by the Process, by Guilio Natta, Dario Sianesi, 2 pp.

ITALIAN, Patent Appl, 4501, 25 Mar 1958.

CIA/FDD XX-00803
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Scl - Chem
Mar 60

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Kinetic Presentation of the Study of the Formation of Stereoblock Polymers, by Giulio Natta, 13 p.

ITALIAN, per, Accad Nazionale dei Lincei, Classe Sci Fis Mat Nat Rend 1958, Vol XXIV, No 3, pp 246-253.

SLA 60-10014 112,091

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Apr 60 Vol III, No 3

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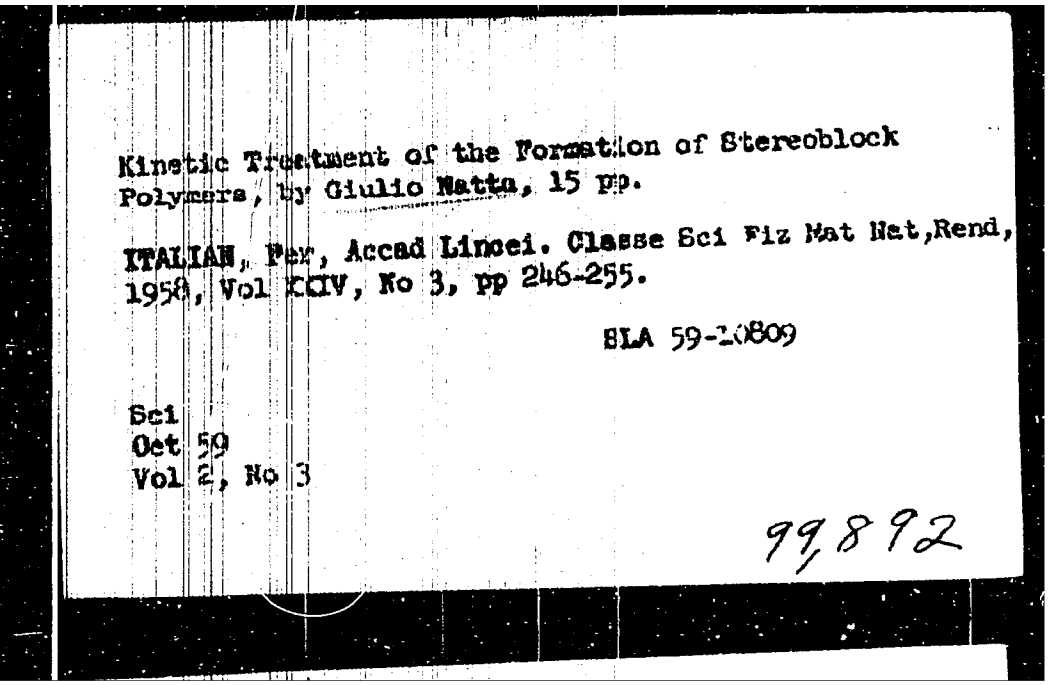

Kinetic Treatment of the Formation of Stereoblock Polymers, by Giulio Natta, 15 pp.

ITALIAN, Per, Accad Lincei. Classe Sci Fiz Mat Nat,Rend, 1958, Vol XXIV, No 3, pp 246-255.

BLA 59-10809

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Isomeric Transitions of Polymers of α-Olefines of the Normal Aliphatic Series, by Giulio Natta, Ferdinando Danusso, Giovanni Moraglio, 11 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Classe di Scienze Fisiche Matematiche e Naturali Rendiconti, Vol XXIV, ser 8, 1958, pp 254-260.

SLA 59-15001.

Sci - Chemistry
Nov 59

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000200910020-4

Natta, Giulio, Farina, Mario, and Peraldo, Mario.
POLYMERS HAVING A DOUBLY ISOTACTIC STRUCTURE. [Nov 63] 1800 words 5refs
Order from CTS(Chem) $7.20 CTS(Chem)-348
subsequent copies $1.20/ea.

Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[emstiche] e Nat[urali]. Rend[iconti] (Italy) 1958 [ser. 8] v. 25, p. 424-430.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Ziegler catalysts, *Stereochemistry, Molecular structure.

(Materials--Plastics, TT, v. 11, no. 5)

TT-64-12044

I. Natta, G.
II. Farina, M.
III. Peraldo, M.
IV. CTS(Chem)-348
V. Chemical Translating Service, Palo Alto, Calif.

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63-17937

Natta, Giulio, Pino, Piero, and Poli, Lido.
A PROCESS OF MANUFACTURING HIGHER MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS AND DIOLEFINS. July 63, 14p.
Order from SA $22.00 SA Code-P-153

Trans. of Japanese patent 255,539, cl. 26-B-2 (26-B-11) appl. no. 6804/1958 filed 17 Mar 56, pub. 25 May 59 as 3991/1959, by Montecatini Societa, Italy (priority claimed: 18 Mar 55, Italy).

DESCRIPTORS: *Polyethylene plastics, *Butenes, *Pentenes, *Dienes, *Butadienes, *Pentadienes, *Hexadienes, *Isoprene, *Copolymerization, Metal-organic compounds, *Ziegler catalysts, Titanium compounds, Chlorides, Aluminum compounds, Alkyl radicals, *Elastomers.

(Materials--Plastics, TT, v. 10, no. 6)

I. Natta, G.
II. Pino, P.
III. Poli, L.
IV. Patent (Japan) 255 539
V. SA Code-P-153
VI. Seizaburo Aoki (Japan)

244673

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Natta, Giulio, Giuffre, Luigi, and Pasquon, Italo. DETERMINATION OF METALS BOUND TO ISOTACTIC POLYPROPYLENE CHAINS. 7 June 60, 12p. 9 refs.
Order from SLA $1.60 61-16791

Trans. of Accad[emia] Naz[ionale dei] Lincei. [Classe di Scienze Fiziche, Matematiche e Naturali. Rendiconti] (Italy) 1958 [ser. 8] v. 25, no. 6, p. 417-423.

DESCRIPTORS: *Propenes, Polymers, *Metals, Determination, Polymerization, Molecular weight.

In the polymerization of isotactic polymeric propylene, with the $Al(C_2H_5)_3$ -a-$TiCl_3$ catalytic system, the chain transfer process, the rate of which is a function of the square root of the concentration of alkylaluminum, introduces $-C_2H_5$ terminal groups into the polymeric chains which remain, for the most part, bound to aluminum. With the variation of the concentration of alkylaluminum, a variation in the number of $-C_2H_5$
(Chemistry--Organic, TT, v. 6, no. 5) (over)

61-16791

1. Title: Isotactic polymers
I. Natta, G.
II. Giuffre, L.
III. Pasquon, I.

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Chromatographic Fractionation of Stereoblock Polymers, by Guilio Natta, Mario Pegoraro, Mario Peraldo, 12 p.

ITALIAN, per, la Ricerca Scientifica [ed il Progresso Technica nell'Economia Nationale, 1958, Vol XXVIII, July pp 1473-1479.

SLA 59-17059

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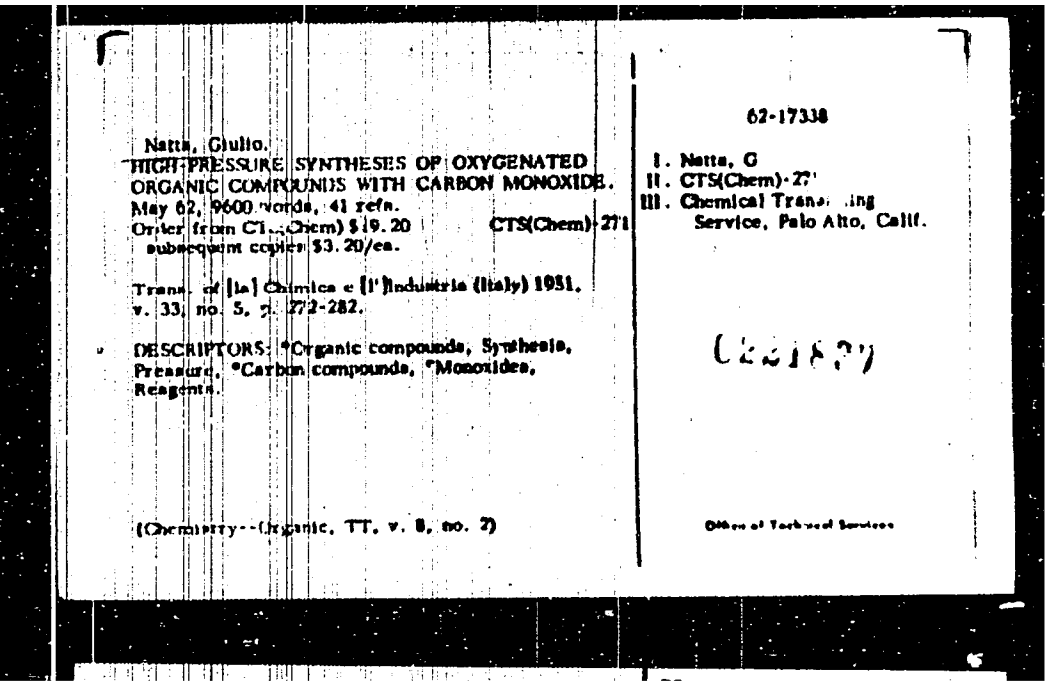

Natta, Giulio.
HIGH-PRESSURE SYNTHESES OF OXYGENATED ORGANIC COMPOUNDS WITH CARBON MONOXIDE.
May 62. 9600 words, 41 refs.
Order from CFSTI (Chem) $19.20 CTS(Chem)-271
subsequent copies $3.20/ea.

Trans. of [La] Chimica e l'Industria (Italy) 1951. v. 33, no. 5, p. 272-282.

DESCRIPTORS: *Organic compounds, Synthesis, Pressure, *Carbon compounds, *Monoxides, Reagents.

(Chemistry--Organic, TT. v. 8, no. 2)

62-17338

I. Natta, G
II. CTS(Chem)-271
III. Chemical Translating Service, Palo Alto, Calif.

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Natta, Giulio, Pino, Piero and others.
SYNTHESES AND PROPERTIES OF CRYSTALLINE HIGH POLYMERS OF SOME ALPHA-OLEFINS WITH A BRANCHED CHAIN. [1960] 10p. 9 refs.
Order from SLA mi$1.80, ph$1.80 60-18499

Trans. of Accad[emia] Naz[ionale dei] Lincei. Classe [di] Sci[enze] Fiz[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1955, v. 19, p. 397-403.

(Chemistry--Organic, TT, v. 5, no. 3)

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60-18499

1. Propenes--Synthesis
I. Natta, G.
II. Pino, P.

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The Crystal Structure of Isotactic Polystyrene, by
~~XXXX~~ Giulio Natta, Paolo Corradini, 3 pp.

ITALIAN, per, Makromol.Chem., Vol XVI, No 1, 1955,
pp 77-80.

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Propylene Polymers of High Molecular Weight and Procedure for their Preparation, by Giulio Natta, 13 p.

ITALIAN, patent 535,712, Cl. XXIV, introduced 8 June 54, approved 17 Nov 55.

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Crystalline Structure of Isotactic Polypropylene,
by Giulio Natta, Paolo Corradini, Marco Cesari,
10 p.

ITALIAN, per, Accad Nazionale Lincei, Classe di Sdi
Fi Mat e Nat Rend, 1956, Vol XXI, No 5, pp 365-372.

SLA 59-15931

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Vol 2, No 6

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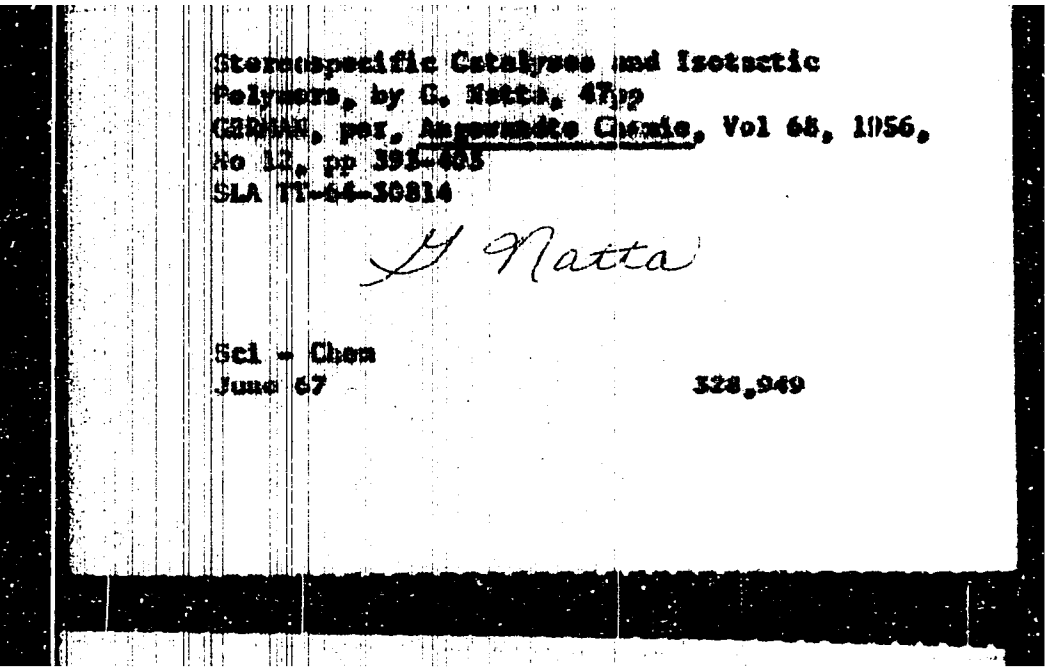

Stereospecific Catalysts and Isotactic
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(GERMAN), per, Angewandte Chemie, Vol 68, 1956,
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G Natta

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